



Weston Solutions, Inc.  
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April 25, 2014

Mr. Craig Thomas  
On-Scene Coordinator  
U.S. Environmental Protection Agency Region V  
77 West Jackson Boulevard  
Chicago, IL 60604

**Subject: Emergency Response (ER) - Buckeye Kankakee Gasoline Spill  
Kankakee, Kankakee County, Illinois  
Technical Direction Document (TDD) No.: S05-0005-1403-006  
Document Control No.: 2306-2A-BLRO  
Work Order No.: 20405.012.005.2306.00**

Dear Mr. Thomas:

Under TDD No. S05-0005-1403-006, the U.S. Environmental Protection Agency tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to support EPA's ER at the Buckeye Kankakee Gasoline Spill in Kankakee, Kankakee County, Illinois (the Site). The ER was initiated to mitigate the potential for imminent and substantial threats to the public health or welfare of the United States or the environment from a pipeline spill of petroleum products (gasoline and gasoline/diesel mix) in a residential area approximately 0.36 mile south of the Kankakee River.

This letter report discusses the Site description and history, ER activities, and future activities, and provides a summary of the ER. **Attachment A** provides the figures for this letter report. **Attachment B** provides a photographic log of Site conditions and ER activities. **Attachment C** contains copies of the Pollution Reports (POLREP) for the Site. **Attachment D** contains the laboratory analytical reports for samples collected by WESTON START during the ER. **Attachment E** contains the data validation report for the air samples collected by WESTON START during the ER.

### **SITE DESCRIPTION AND HISTORY**

The Site is located on Illinois Highway 113 (IL-113) in the City of Kankakee (the City), between Indian Trail Road and North 1500W Road (**Figures 1 and 2 in Attachment A**). The Site's geographic coordinates are 41.143600 North latitude and -87.902276 West longitude. The Site is located approximately 0.36 mile south of the Kankakee River (the River).

On March 14, 2014, at approximately 0250 hours, a call was made to the National Response Center indicating a potential pipeline spill in a drainage ditch along IL-113 in Kankakee, Illinois. Buckeye Partners, L.P. (Buckeye), owns the pipeline. The EPA On-Scene Coordinator (OSC) and a WESTON START team member mobilized to the Site to investigate the incident and conduct appropriate response actions.



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## **EMERGENCY RESPONSE ACTIVITIES**

EPA and WESTON START conducted oversight of ER activities from March 14 through 21, 2014, after which the incident was turned over to the Illinois Environmental Protection Agency (IEPA) for monitoring. During the ER, WESTON START took photographs to document on-site activities. **Attachment B** provides the photographic log of Site conditions and ER activities. **Attachment C** provides copies of the POLREPs, which include detailed daily chronologies of Site activities. **Attachment D** contains the laboratory analytical data reports for all samples collected by WESTON START during the ER.

On March 14, 2014, at approximately 0800 hours, the EPA OSC and WESTON START personnel initially inspected the suspected source of the pipeline spill. WESTON START observed that two parallel petroleum pipelines cross under IL-113 and are oriented in a north-south direction. WESTON START was informed that one pipeline carried gasoline and the other Transmix (a mix of gasoline and diesel). The southern drainage ditch on IL-113, where the pipelines cross under the road, contained a slight sheen, and photoionization detector (PID) readings for organic vapors collected by WESTON START at the southern drainage ditch were at background levels, with occasional spikes of about 1 part per million (ppm) above background. Upon further investigation, the area north of IL-113 was discovered to be heavily contaminated with petroleum product (**Figure 2** in **Attachment A**). The area impacted by the release included a small agricultural field with a ponded area and a drainage ditch that flows east and then north along Indian Trail Road. The IEPA mobilized to the Site to monitor the situation and to work with the EPA. Buckeye also mobilized contractors and equipment to the Site to conduct ER activities.

Throughout the ER activities, WESTON START used a PID to conduct air monitoring for organic vapors. Breathing zone PID results away from the work activities were at background levels. PID readings near the excavation area during excavation activities mostly ranged from 0 to 10 ppm above background, but occasionally high readings of approximately 60 ppm were recorded. Buckeye's contractor, Conestoga Rovers and Associates (CRA), also conducted extensive air monitoring at the Site and in surrounding residential neighborhoods.

A summary of the ER activities is presented below.

- On March 14, 2014, Buckeye mobilized contractors and equipment to Site. Contractors included Future Environmental, SET Environmental (SET), Antea Group, CRA, and Midwest Contractors.
- On March 14, 2014, Buckeye contractors cleared shrubbery around the area where the pipelines are located and began excavating soil around the pipelines. Initially during excavation, gasoline fumes were noted and excavation was stopped in order to update the health and safety plan and increase the level of protection for workers.



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- On March 14, 2014, Buckeye contractors dug an interceptor pit north of IL-113 in an effort to intercept product runoff toward the north.
- On March 14, 2014, Buckeye contractors deployed boom in the ponded area of the field and in the drainage ditch along Indian Trail Road. Throughout the ER, Buckeye contractors continued to conduct boom deployment and maintenance.
- On March 14, 2014, Buckeye identified residences with wells. Antea Group conducted residential water well sampling throughout the ER and collected samples from approximately 39 residences. Temporary drinking water was supplied to affected residents. WESTON START split six of the residential well samples collected by Antea Group.
- On a daily basis, Buckeye contractors used vacuum trucks to remove petroleum-impacted water from the suspected source area, interceptor trench, ponded area, and ditch near Indian Trail Road.
- On March 15, 2014, Buckeye estimated that the amount of petroleum product released was 1,000 to 1,500 gallons.
- On March 15, 2014, SET used a boat on the Kankakee River to identify areas with sheen and petroleum material. Three reconnaissance trips of the river were made from upstream of the outfall near the release to 1 mile west of outfall. No sheen or other petroleum material was observed along the banks of the river.
- On March 15, 2014, WESTON START collected a product sample for potential fingerprinting analysis. Fingerprinting analysis was determined to not be needed and the product sample was not analyzed.
- Throughout the ER, Buckeye prepared several plans, including sampling plans, an air monitoring plan, and a work plan. WESTON START and EPA reviewed these plans.
- Throughout the ER, Buckeye contractors exposed the pipelines in excavation areas north and south of IL-113 and underneath IL-113 by cutting and removing a portion of the road. Old pipe sleeve was cut and removed. Replacement pipeline sections were delivered and welded together to form two replacement pipelines – one 100 feet long and the other 160 feet long. Both pipes were tapped in preparation for pumping and vacuuming remaining product from pipelines. Personnel from U.S. Coast Guard oversaw pipe tapping activities. Product from the pipes was transferred into tanker trucks and hauled off site. Replacement pipeline sections were x-rayed, and hydrostatic testing was conducted. Buckeye contractors extended the pipeline excavation approximately 60 feet south in order to fit the longer replacement pipelines into the excavation. Antea Group collected material from the removed pipeline casing and four soil samples from around pipe sections under the roadway. The west pipeline was cut; drained; removed from the excavation area; and set on IL-113 west of the excavation area for field inspection before being cleaned, cut, and sent to DNV, a material testing laboratory in Dublin, Ohio, for further inspection and testing. The new pipeline section was placed in the excavation, and

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the connecting surfaces were welded. Pressure tests were conducted on the replacement pipelines after installation. No sheen was observed on the outfall to the Kankakee River during the tests.

- Throughout excavation of the soil around the pipelines, Antea Group collected samples from the excavation pit sidewalls. WESTON START provided oversight of soil sampling activities and collected six split soil samples.
- During pipeline removal, field inspection of the removed sections of the pipelines revealed two approximately ¾-inch to 1-inch leak sources, one per pipeline. The areas on each pipe were observed to be within a few feet of each other. Buckeye continued to investigate the cause of the release.
- Throughout the ER, Buckeye contractors backfilled around the new sections of installed pipeline and removed petroleum-impacted soil north of IL-113.
- From March 15 through 18, 2014, Antea Group advanced approximately 26 soil borings and collected samples using a hand auger or Geoprobe® unit. The soil borings were screened with a PID. Soil samples for laboratory analysis typically were collected from sections with the highest PID readings. The samples were submitted to a laboratory for analysis for volatile organic compounds (VOC), diesel-range organics (DRO), gasoline-range organics (GRO), and polynuclear aromatic hydrocarbons (PAH). WESTON START provided oversight of soil boring activities and split five of the soil samples.
- On March 19, 2014, heavy morning rains brought oil sheen to the soil surface, including free product flowing from an area approximately 30 feet north of the excavation area. Buckeye contractors dug an interceptor pit, which filled with Transmix free product. Buckeye contractors worked to remove the product from the interceptor pit.
- On March 21, 2014, WESTON START deployed three SUMMA canisters for air sampling – one upwind and two downwind of the suspected source area. **Figure 3 in Attachment A** shows the air sampling locations. The samples were collected over approximately 24 hours and submitted for VOC analysis. **Attachment E** contains the data validation report for the air samples. The Agency for Toxic Substances and Disease Registry (ATSDR) reviewed the air sample results and determined them to be below applicable health standards.
- On March 21, 2014, Antea Group collected additional soil samples from the wooded area between the agricultural field and Indian Trail Road.
- On March 21, 2014, all incident command meetings were suspended as the incident moved beyond the emergency phase. The EPA OSC turned over the incident to the IEPA.
- EPA and WESTON START demobilized from the Site on March 21, 2014.

Buckeye reported the ER recovery and treatment metrics summarized in the table below to the EPA.



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|  |   |
|--|---|
| <b>Volume of contaminated soil removed</b> | 1,252 cubic yards (disposed at Laraway Landfill, Joliet, Illinois)  |
| <b>Amount of oil/water recovered</b>       | 90,308 gallons (disposed at Beaver Oil)   |
| <b>Number of workers on site</b>           | More than 80  |
| <b>Initial amount released</b>             | 1,500 gallons (estimated)   |
| <b>Final amount collected</b>              | Unknown (430 gallons of product; 89,878 gallons of oil/water mix; and 1,252 cubic yards of impacted soil) |

### **FUTURE ACTIVITIES**

After the response activities from March 14 to 21, 2014, Buckeye continued to provide updates to the EPA OSC on progress metrics and provided laboratory analytical results for environmental samples collected. In addition, Buckeye made preparations to install six shallow groundwater monitoring wells. The IEPA will be working with Buckeye on this effort.

### **SUMMARY**

Under direction of the EPA OSC, WESTON START personnel conducted oversight and monitoring of a dual-pipeline gasoline and Transmix (gasoline and diesel) spill in Kankakee, Illinois. Buckeye, the operator of the pipelines, excavated and replaced the leaking pipeline sections, and its contractors deployed boom, excavated contaminated soil, performed vacuum-truck operations; and conducted air monitoring, soil sampling, and residential well sampling. Throughout the ER, WESTON START conducted daily air monitoring for organic vapors using a PID and reported the results to the EPA OSC. No sheen was observed in the Kankakee River throughout the ER. On March 21, 2014, the planned ER activities were completed and EPA and WESTON START demobilized from the Site.

If you have any questions or comments regarding this report, please contact WESTON START at (312) 424-3300.

Very truly yours,  
WESTON SOLUTIONS, INC.

Lisa Graczyk  
START Project Manager

#### Attachments:

A – Figures  
B – Photographic Log  
C – POLREPs

D – Laboratory Analytical Reports  
E – Data Validation Report for Air Samples

cc: START DCN File

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2306-2A-BLRO

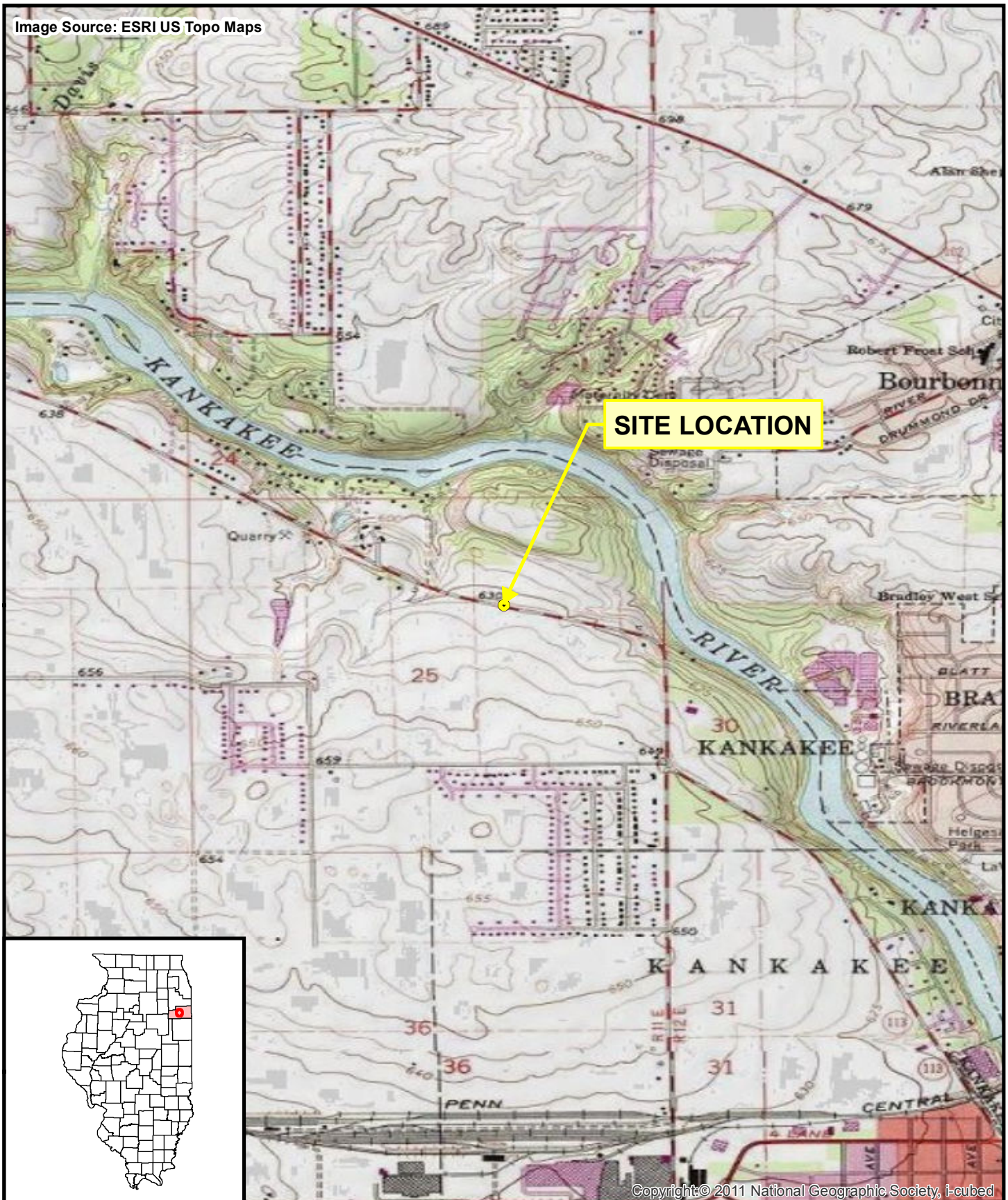
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**ATTACHMENT A**  
**FIGURES**

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Image Source: ESRI US Topo Maps



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#### Legend

● Site Location

0 2,000 Feet



Prepared for:  
**U.S. EPA REGION V**

Contract No.: EP-S5-06-04  
TDD: S05-0005-1403-006  
DCN: 2306-2A-BLRO



Prepared By:  
**WESTON SOLUTIONS, INC**

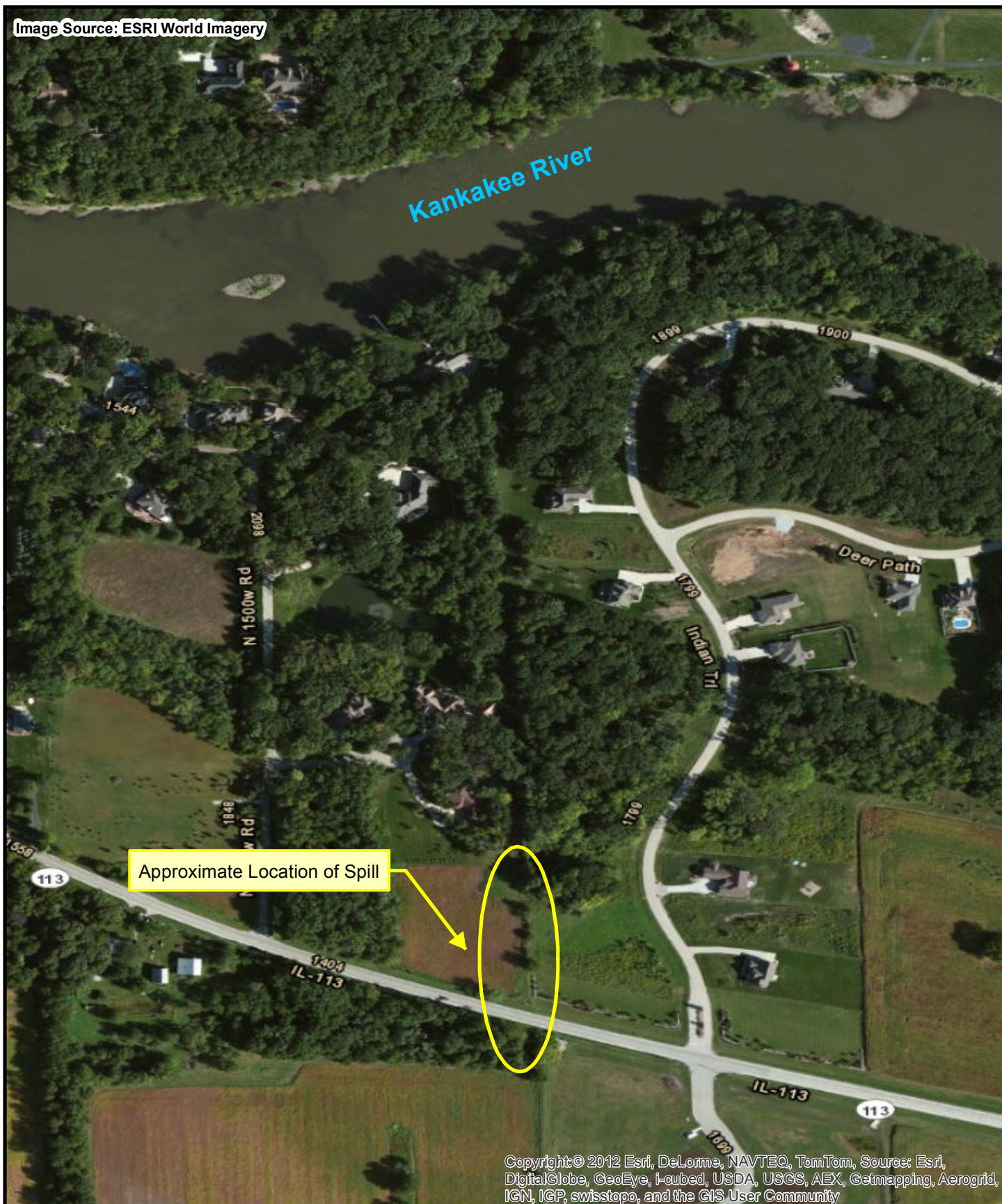
20 N Wacker Dr,  
Ste 2035  
Chicago, IL 60606

#### Figure 1

Site Location Map  
ER-Buckeye Kankakee Gasoline Spill  
Kankakee, Kankakee County, Illinois




Image Source: ESRI World Imagery



Copyright © 2012 Esri, DeLorme, NAVTEQ, TomTom, Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

#### Legend

 Approximate Location of Spill

0 350 Feet



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#### Figure 2



Site Layout Map  
ER-Buckeye Kankakee Gasoline Spill  
Kankakee, Kankakee County, Illinois



Image Source: ESRI World Imagery



#### Legend

-  Air Sampling Locations
  -  Approximate Location of Spill
- 0 350 Feet



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**Figure 3**

Air Sampling Location Map  
ER-Buckeye Kankakee Gasoline Spill  
Kankakee, Kankakee County, Illinois

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**ATTACHMENT B**  
**PHOTOGRAPHIC LOG**

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**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 1

**Direction:** Southeast

**Subject:** Ponded area in agricultural field directly north of IL-113 containing free product runoff

**Date:** 3/14/14

**Photographer:** Brennan Johnson



**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 2

**Direction:** East

**Subject:** Pipelines exposed on the south side of IL-113

**Date:** 3/15/14

**Photographer:** Brennan Johnson





**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 3

**Direction:** Down

**Subject:** WESTON START collecting product sample

**Date:** 3/15/14

**Photographer:** Brennan Johnson



**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 4

**Direction:** East

**Subject:** Pipelines exposed on north side of IL-113

**Date:** 3/16/14

**Photographer:** Brennan Johnson



**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 5

**Date:** 3/16/14

**Direction:** Southeast

**Photographer:** Brennan Johnson

**Subject:** Contractors excavating IL-113 to uncover pipelines underneath the road



**Site:** ER - Buckeye Kankakee Gasoline Spill  
**Photograph No.:** 6  
**Direction:** South  
**Subject:** Pipelines exposed beneath IL-113

**Date:** 3/17/14  
**Photographer:** Brennan Johnson





**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 7

**Direction:** West

**Subject:** Western pipeline being tapped in preparation for draining

**Date:** 3/17/14

**Photographer:** Brennan Johnson



**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 8

**Date:** 3/18/14

**Direction:** North

**Photographer:** Brennan Johnson

**Subject:** Agricultural field north of IL-113 where product runoff occurred after removal of top 6 inches of soil



**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 9

**Date:** 3/19/14

**Direction:** Northwest

**Photographer:** Brennan Johnson

**Subject:** Product coming up in the 6-inch-deep excavation in the field north of IL-113 after heavy rains the prior evening





**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 10

**Direction:** West

**Subject:** Crews removing old section of western pipeline

**Date:** 3/19/14

**Photographer:** Brennan Johnson



**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 11

**Direction:** South

**Subject:** Crews positioning new pipeline

**Date:** 3/19/14

**Photographer:** Brennan Johnson





**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 12

**Direction:** West

**Subject:** Both sections of old pipeline laid out for inspection prior to cutting, removal, and shipment for testing

**Date:** 3/20/14

**Photographer:** Brennan Johnson



**Site:** ER - Buckeye Kankakee Gasoline Spill

**Photograph No.:** 13

**Direction:** South

**Subject:** New pipeline sections being backfilled for reconstruction of IL-113

**Date:** 3/21/14

**Photographer:** Brennan Johnson

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**ATTACHMENT C**  
**POLREPs**

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep  
 Initial Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region V**

**Subject:** POLREP #1  
 Initial  
 Buckeye Pipeline - Kankakee Gasoline Spill  
  
 Kankakee, IL  
 Latitude: 41.1435080 Longitude: -87.9022360

**To:**  
**From:** Paul Atkociunas, OSC  
**Date:** 3/14/2014  
**Reporting Period:** March 14, 2014

## 1. Introduction

### 1.1 Background

|                                     |  |
|-------------------------------------|--|
| <b>Site Number:</b>                 | <b>Contract Number:</b>                  |
| <b>D.O. Number:</b>                 | <b>Action Memo Date:</b>                 |
| <b>Response Authority:</b> OPA      | <b>Response Type:</b> Emergency          |
| <b>Response Lead:</b> PRP           | <b>Incident Category:</b> Removal Action |
| <b>NPL Status:</b> Non NPL          | <b>Operable Unit:</b>                    |
| <b>Mobilization Date:</b> 3/14/2014 | <b>Start Date:</b> 3/14/2014             |
| <b>Demob Date:</b>                  | <b>Completion Date:</b>                  |
| <b>CERCLIS ID:</b>                  | <b>RCRIS ID:</b>                         |
| <b>ERNS No.:</b>                    | <b>State Notification:</b> 03/14/2014    |
| <b>FPN#:</b> E14508                 | <b>Reimbursable Account #:</b>           |

#### 1.1.1 Incident Category

Petroleum release (suspected gasoline) on drainage ditch near Buckeye pipelines in Kankakee, IL

#### 1.1.2 Site Description

The two Buckeye pipelines where the petroleum sheen was encountered is located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

##### 1.1.2.1 Location

IL-113 and Indian Trail Road, Kankakee, IL



### **1.1.2.2 Description of Threat**

There is a potential threat to soil and groundwater from a gasoline release. Residents located east of the site are on private wells. In addition, the drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline may provide a conduit for gasoline to travel to the navigable waterway.

### **1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two 8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. The release was estimated at 500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There no reports of impacts to the Kankakee River.

#### **2.1.2 Response Actions to Date**

The following response actions occurred on 3/14/14:

- Buckeye Pipeline mobilized contractors and equipment to site. Contractors include Future Environmental; SET Environmental; CRA; and Midwest Contractors. Heavy equipment mobilized included two excavators and several tanker trucks
- Buckeye cleared shrubbery around the area where the pipelines are located and began excavation. During excavation, gasoline fumes were noted and excavation was stopped in order to update the health and safety plan and increase level of protection for workers
- Buckeye's contractor, CRA, performed air monitoring during excavation, in areas of the spill and the residential area.
- The area north of the pipeline spill across IL-113 was discovered to be heavily contaminated with petroleum product. The area impacted with oil includes a small agricultural field and a drainage ditch which flows east and then north.
- The police department and Buckeye contractors visited residences to update them on situation and to see if they were having any issues with water
- IEPA was on site to monitor situation and work with U.S. EPA
- U.S. EPA's contractor, Weston, performed air monitoring with a PID and documented site activities. Initial readings along the ditch were background to 1 ppm VOCs. Highest reading received were around 65 ppm both in the work zone when the contractors began excavating around the pipeline and when the PID was put near the product discovered in the field.
- Buckeye has identified homes with wells and provided sampling, temporary drinking water to affected residents.

#### **2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)**

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

#### 2.1.4 Progress Metrics

| <i>Waste Stream</i> | <i>Medium</i> | <i>Quantity</i> | <i>Manifest #</i> | <i>Treatment</i> | <i>Disposal</i> |
|---------------------|---------------|-----------------|-------------------|------------------|-----------------|
|                     |               |                 |                   |                  |                 |
|                     |               |                 |                   |                  |                 |
|                     |               |                 |                   |                  |                 |

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

#### 2.2.1.1 Planned Response Activities

Ensure the health and safety of responders and the public  
 Delineate extent of contamination  
 Monitor the Kankakee River for possible impacts  
 Excavate impacted soils  
 Collect impacted water, gasoline and product  
 Conduct monitoring and sampling, as necessary  
 Conduct oversight of Buckeye Operations  
 Document response activities.

#### 2.2.1.2 Next Steps

#### 2.2.2 Issues

Documentation of off-site release of gasoline / product to the North of the Pipeline release point.

## 2.3 Logistics Section

START is providing monitoring, documentation, and oversight support. Buckeye Pipeline has mobilized vac trucks, excavation equipment, monitoring, and sampling equipment. A Command Post at a local hotel has been established.

## 2.4 Finance Section

### 2.4.1 Narrative

An FPN was issued for \$50,000.

## 2.5 Other Command Staff

### 2.5.1 Safety Officer

EPA and START are providing health and safety oversight.

### 2.5.2 Liaison Officer

### 2.5.3 Information Officer

## 3. Participating Entities

### 3.1 Unified Command

### 3.2 Cooperating Agencies

Illinois EPA  
Limestone Fire Department  
Kankakee County EMA  
Kankakee Police Department  
United States Coast Guard

#### 4. Personnel On Site

|                       |    |   |
|-----------------------|----|---|
| EPA                   |    | 1 |
| START                 |    | 2 |
| Buckeye / Contractors | 40 |   |

#### 5. Definition of Terms

No information available at this time.

#### 6. Additional sources of information

##### 6.1 Internet location of additional information/report

[www.epaosc.org/BuckeyeKankakeeGas](http://www.epaosc.org/BuckeyeKankakeeGas)

##### 6.2 Reporting Schedule

POLREPS will be issued ongoing.

#### 7. Situational Reference Materials

No information available at this time.



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region V**

**Subject:** POLREP #2  
 Progress  
 Buckeye Pipeline - Kankakee Gasoline Spill  
  
 Kankakee, IL  
 Latitude: 41.1435080 Longitude: -87.9022360

**To:**  
**From:** Andrew Maguire, OSC  
**Date:** 3/15/2014  
**Reporting Period:** 3/15/2014

**1. Introduction**

**1.1 Background**

|                                     |  |
|-------------------------------------|--|
| <b>Site Number:</b>                 | <b>Contract Number:</b>                  |
| <b>D.O. Number:</b>                 | <b>Action Memo Date:</b>                 |
| <b>Response Authority:</b> OPA      | <b>Response Type:</b> Emergency          |
| <b>Response Lead:</b> PRP           | <b>Incident Category:</b> Removal Action |
| <b>NPL Status:</b> Non NPL          | <b>Operable Unit:</b>                    |
| <b>Mobilization Date:</b> 3/14/2014 | <b>Start Date:</b> 3/14/2014             |
| <b>Demob Date:</b>                  | <b>Completion Date:</b>                  |
| <b>CERCLIS ID:</b>                  | <b>RCRIS ID:</b>                         |
| <b>ERNS No.:</b>                    | <b>State Notification:</b> 03/14/2014    |
| <b>FPN#:</b> E14508                 | <b>Reimbursable Account #:</b>           |

**1.1.1 Incident Category**

Petroleum release (suspected gasoline) in drainage ditch near Buckeye pipelines in Kankakee, IL

**1.1.2 Site Description**

The two Buckeye pipelines where the petroleum sheen was encountered are located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

**1.1.2.1 Location**

IL-113 and Indian Trail Road, Kankakee, IL

### 1.1.2.2 Description of Threat

There is a potential threat to the Kankakee River and groundwater from a gasoline release. Residents located east of the site are on private wells. The drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline and drainage ditch may provide a conduit for gasoline to travel to the navigable waterway.

### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two 8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. One pipeline was carrying gasoline and the other a transmix of gasoline and diesel. Both pipelines are leaking. The exact locations of the leaks along the pipeline are not identified yet, however they are believed to be within the casing underneath State Route 113. The release was initially estimated at 500 gallons but is now estimated to be between 1,000 and 1,500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There are no reports of impacts to the Kankakee River.

#### 2.1.2 Response Actions to Date

The following response actions occurred during night operations from 3/14/14 (1500) to 3/15/14 (0700):

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation and T&D operations. CRA conducted air monitoring and sampling activities. Antea Group conducted environmental surface water and residential drinking water sampling. SET Environmental conducted boom deployment and maintenance.
- Buckeye contractors began removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Buckeye contractors diverted the water around the excavation area.
- Buckeye contractors excavated impacted soil to expose the two pipelines.
- Buckeye contractors collected upstream and downstream water samples from the ditch near the suspected source area. In addition, drinking water samples were collected from residential homes.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in areas of the spill and the residential area. Three AreaRAE units were stationed downwind from the source area and one AreaRAE unit was stationed upwind from the suspected source area. In addition, MultiRAEs and Benzene UltraRAEs are used near the suspected source and residential area. Five passive air sampling units were installed downwind from the Site for VOC analysis.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, Draeger CMS benzene chip reader and documented site activities. VOC readings range from 0-30 ppm in the suspected source area and non-detects in the residential area. Benzene and H2S readings were non-detects in the residential and source area. Carbon Monoxide ranged from 0-20 ppm in the source area which may have been due to the generators

and trucks on idle. Carbon Monoxide was non-detect in the residential area.

The following response actions occurred during the day time operations on 3/15/14 from 0700 to 1900:

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation and T&D operations. CRA conducted air monitoring and sampling activities. Antea Group conducted environmental surface water and residential drinking water sampling. SET Environmental continued to conduct boom deployment and maintenance, in addition to deploying 2 trailers of sorbent mats in Zone 2.
- Buckeye increased its release estimate from 500 gallons to 1,000-1,500 gallons.
- Antea Group conducted soil boring samples using hand auger and/or geoprobe. The soil borings were then screened with a PID. The section with the highest PID reading had a soil sample collected from there. The samples will be submitted to a lab and analyzed for VOCs, DRO, GRO and PAHs.
- SET conducted boat operations, making 3 tours of the river from upstream of area outfall to 1-mile west of outfall. No sheen observed or other petroleum material were detected along banks.
- Buckeye contractors continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Buckeye contractors installed a trench box over exposed pipes in excavation north of IL-113, and excavated to expose the pipelines on the southern side of IL-113.
- Buckeye contractors continued collecting drinking water samples from 39 residential homes.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. Three AreaRAE units were stationed downwind from the excavation area and one AreaRAE unit was stationed upwind from the excavation area. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-20ppm in the excavation area and non-detects in the residential area. Benzene readings were 0-0.3ppm in the excavation area and non-detects in the residential area. Carbon Monoxide ranged from 0-20 ppm in the excavation area which may have been due to the generators and trucks on idle. Carbon Monoxide was non-detect in the residential area.
- Weston collected a product sample to be sent to USCG Marine Safety Lab for fingerprinting analysis.
- Weston provided oversight of Antea Group's soil boring activities and collected 2 split soil samples in tandem with Antea's sampling activities.

The following response actions occurred during night operations from 3/15/14 (1700) to 3/16/14 (0700):

- Buckeye Pipeline contractors onsite included Future Environmental; CRA; and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation, pipe cutting and T&D operations. CRA conducted air monitoring and sampling activities.
- Buckeye contractors continued removing impacted water from the excavation area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Buckeye contractors exposed pipes in excavation north and south of IL-113. Visual product was on west pipe north of IL-113. Old pipe sleeve was cut and removed. Leak sources have not yet been identified on either pipe.



- Buckeye's contractor, CRA, performed air monitoring during excavation, in areas of the spill and the residential area. Due to wind shift, AreaRAE units were moved. Three AreaRAE units were stationed downwind from the excavation area and one AreaRAE unit was stationed upwind from the excavation area. In addition, MultiRAEs and Benzene UltraRAEs are used near the source and residential area.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-2 ppm in the excavation area and non-detects in the residential area. Benzene readings were non-detects in the excavation and residential area. Carbon Monoxide was non-detect in the excavation and residential area.

### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

### 2.1.4 Progress Metrics

TBD

| <i><b>Waste Stream</b></i> | <i><b>Medium</b></i> | <i><b>Quantity</b></i> | <i><b>Manifest #</b></i> | <i><b>Treatment</b></i> | <i><b>Disposal</b></i>                   |
|----------------------------|----------------------|------------------------|--------------------------|-------------------------|--|
| soil                       |                      | 8 truck loads          |                          |                         | staged at Buckeye terminal               |
| water                      |                      | 6 vac trucks           |                          |                         | staged in frac tanks at Buckeye terminal |
| skimmed product            |                      | 1 skimmer              |                          |                         | staged in frac tanks at Buckeye terminal |

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

#### 2.2.1.1 Planned Response Activities

Ensure the health and safety of responders and the public  
 Identify locations of pipeline anomalies and/or breaks  
 Delineate extent of contamination via groundwater, soil, and residential well sampling  
 Monitor the Kankakee River for possible impacts  
 Excavate impacted soils  
 Collect impacted water, soil, and petroleum  
 Conduct monitoring and sampling, as necessary  
 Conduct oversight of Buckeye Operations  
 Document response activities.

#### 2.2.1.2 Next Steps

Kankakee County Health will produce a press release/statement indicating drinking water areas of concern and identify areas that are safe for drinking and use.

### **2.2.2 Issues**

Documentation of off-site release of gasoline / product to the North of the Pipeline release point.

### **2.3 Logistics Section**

START is providing monitoring, documentation, and oversight support. Buckeye Pipeline has mobilized vac trucks, excavation equipment, monitoring, and sampling equipment. A Command Post at a local hotel has been established.

### **2.4 Finance Section**

#### **2.4.1 Narrative**

An FPN was issued for \$50,000. OSC is monitoring EPA and START costs.

### **2.5 Other Command Staff**

#### **2.5.1 Safety Officer**

EPA and START are providing health and safety oversight.

#### **2.5.2 Liaison Officer**

#### **2.5.3 Information Officer**

Francisco Arcuate

## **3. Participating Entities**

### **3.1 Unified Command**

USEPA, Buckeye Pipeline, Kankakee County EMA, Illinois EPA

### **3.2 Cooperating Agencies**

Limestone Fire Department  
Kankakee County Health Department  
Kankakee Police Department  
United States Coast Guard  
ATSDR

## **4. Personnel On Site**

EPA 2

START 4

Buckeye / Contractors 40

## **5. Definition of Terms**

No information available at this time.

## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

[www.epaosc.org/BuckeyeKankakeeGas](http://www.epaosc.org/BuckeyeKankakeeGas)

### **6.2 Reporting Schedule**

POLREPS will be issued ongoing.

**7. Situational Reference Materials**

No information available at this time.



U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region V**

**Subject:** POLREP #3  
 Progress  
 Buckeye Pipeline - Kankakee Gasoline Spill  
  
 Kankakee, IL  
 Latitude: 41.1435080 Longitude: -87.9022360

**To:**  
**From:** Andrew Maguire, OSC  
**Date:** 3/17/2014  
**Reporting Period:** 3/16/2014 to 3/17/2014

## 1. Introduction

### 1.1 Background

|                                     |  |
|-------------------------------------|--|
| <b>Site Number:</b>                 | <b>Contract Number:</b>                  |
| <b>D.O. Number:</b>                 | <b>Action Memo Date:</b>                 |
| <b>Response Authority:</b> OPA      | <b>Response Type:</b> Emergency          |
| <b>Response Lead:</b> PRP           | <b>Incident Category:</b> Removal Action |
| <b>NPL Status:</b> Non NPL          | <b>Operable Unit:</b>                    |
| <b>Mobilization Date:</b> 3/14/2014 | <b>Start Date:</b> 3/14/2014             |
| <b>Demob Date:</b>                  | <b>Completion Date:</b>                  |
| <b>CERCLIS ID:</b>                  | <b>RCRIS ID:</b>                         |
| <b>ERNS No.:</b>                    | <b>State Notification:</b> 03/14/2014    |
| <b>FPN#:</b> E14508                 | <b>Reimbursable Account #:</b>           |

#### 1.1.1 Incident Category

Petroleum release (suspected gasoline and gasoline/diesel transmix) in drainage ditch and pasture near Buckeye pipelines in Kankakee, IL

#### 1.1.2 Site Description

The two Buckeye pipelines where the petroleum sheen was encountered are located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

##### 1.1.2.1 Location

IL-113 and Indian Trail Road, Kankakee, IL

### 1.1.2.2 Description of Threat

There is a threat to the Kankakee River and groundwater from a gasoline release. Residents located east of the site are on private wells. The drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline and drainage ditch may provide a conduit for gasoline to travel to the navigable waterway.

### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two 8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. One pipeline was carrying gasoline and the other a transmix of gasoline and diesel. Both pipelines are leaking. The exact locations of the leaks along the pipeline are not identified yet, however they are believed to be within the casing underneath State Route 113. The release was initially estimated at 500 gallons but is now estimated to be between 1,000 and 1,500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There are no reports of impacts to the Kankakee River.

#### 2.1.2 Response Actions to Date

The following response actions occurred during the day time operations on 3/16/14 from 0700 to 1900:

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation and T&D operations. CRA conducted air monitoring and sampling activities. Antea Group conducted environmental surface water and residential drinking water sampling.
- Buckeye contractors continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Buckeye contractors began cutting and removing a portion of IL 113 and began excavating in the road to expose the pipes.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. Four additional AreaRAEs arrived today. A total of eight AreaRAEs were operating. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-3.5 ppm in the excavation area and non-detects in the residential area. Benzene readings were non-detect in the excavation and residential. Carbon Monoxide ranged from 0-5 ppm in the excavation area which may have been due to the generators and trucks on idle. Carbon Monoxide was non-detect in the residential area.
- Antea Group conducted six soil boring samples using hand auger and/or geoprobe. The soil borings were then screened with a PID. The section with the highest PID reading had a soil sample collected from there. The samples will be submitted to a lab and analyzed for VOCs,

PAHs, and TPH as DRO and GRO. Weston provided oversight of Antea Group's soil boring activities and collected 3 split soil samples.

- Antea Group collected drinking water samples from residential homes. A total of 35 homes have been sampled. Samples will be submitted to a lab and analyzed for VOCs and PAHs. START collected 4 split samples.
- Weston reviewed Buckeye pipeline contractor's sampling plans, air monitoring plan and work plan.

The following response actions occurred during night operations from 3/16/14 (1700) to 3/17/14 (0700):

- Buckeye Pipeline contractors onsite included Future Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation, pipe cutting and T&D operations. CRA conducted air monitoring and sampling activities.
- Buckeye contractors continued removing impacted water from the excavation area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Thirteen soil trucks were hauled off Site.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in areas of the spill and the residential area. Eight AreaRAE units are stationed surrounding the Site. In addition, MultiRAEs and Benzene UltraRAEs are used near the source and residential area. VOC readings ranged from 0-4.6 ppm PID. Benzene readings were non-detect.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-2 ppm in the excavation area and non-detects in the residential area. Benzene readings were non-detects in the excavation and residential area. Carbon Monoxide was non-detect in the excavation and residential area.

### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

### 2.1.4 Progress Metrics

Waste is being staged at Buckeye terminal. The soil will go to Laraway Landfill in Joliet, IL, product waste will go to Beaver oil and water/boom/PPE will go to Aaron oil in Alabama.

| <i><b>Waste Stream</b></i> | <i><b>Medium</b></i> | <i><b>Quantity</b></i> | <i><b>Manifest #</b></i> | <i><b>Treatment</b></i> | <i><b>Disposal</b></i>                   |
|----------------------------|----------------------|------------------------|--------------------------|-------------------------|--|
| soil                       |                      | 515 yd3                |                          |                         | staged at Buckeye terminal               |
| water                      |                      | 17,654gal              |                          |                         | staged in frac tanks at Buckeye terminal |
| skimmed product            |                      | 266 gal                |                          |                         | staged in frac tanks at Buckeye terminal |

## 2.2 Planning Section

### 2.2.1 Anticipated Activities



### **2.2.1.1 Planned Response Activities**

Ensure the health and safety of responders and the public  
 Expose pipeline underneath highway, cut out suspect pipeline length (approx 100 ft/pipeline)  
 Construct, hydrostatic test, install, weld and test new length of pipeline  
 Inspect suspect pipeline length at nearby Kankakee Terminal.  
 Delineate extent of contamination via groundwater, soil, and residential well sampling  
 Monitor the Kankakee River for possible impacts  
 Excavate impacted soils  
 Collect impacted water, soil, and petroleum  
 Conduct monitoring and sampling, as necessary  
 Conduct oversight of Buckeye Operations  
 Document response activities.

### **2.2.1.2 Next Steps**

Buckeye Partners and Kankakee County Health has released a press release/statement indicating drinking water areas of concern and identify areas that are safe for drinking and use. It can be viewed at [www.kankakeeroute113release.com](http://www.kankakeeroute113release.com).

### **2.2.2 Issues**

Documentation of off-site release of gasoline / product to the North of the Pipeline release point.

## **2.3 Logistics Section**

START is providing monitoring, documentation, and oversight support. Buckeye Pipeline has mobilized vac trucks, excavation equipment, monitoring, and sampling equipment. The Incident Command Post is at the Hilton Garden Inn in Kankakee (455 Riverstone Parkway, Kankakee, IL 60901).

## **2.4 Finance Section**

### **2.4.1 Narrative**

An FPN was issued for \$50,000. OSC is monitoring EPA and START costs.

## **2.5 Other Command Staff**

### **2.5.1 Safety Officer**

EPA and START are providing health and safety oversight. US Coast Guard will provide additional Safety oversight as of 1200 3/17/14.

### **2.5.2 Liaison Officer**

### **2.5.3 Information Officer**

Francisco Arcuate

## **3. Participating Entities**

### **3.1 Unified Command**

USEPA, Buckeye Pipeline, Kankakee County EMA, Illinois EPA

### **3.2 Cooperating Agencies**

Limestone Fire Department  
 Kankakee County Health Department  
 Kankakee Police Department  
 United States Coast Guard  
 ATSDR

#### **4. Personnel On Site**

EPA 2

START 5

USCG - 2

Buckeye / Contractors 80

#### **5. Definition of Terms**

No information available at this time.

#### **6. Additional sources of information**

##### **6.1 Internet location of additional information/report**

[www.epaosc.org/BuckeyeKankakeeGas](http://www.epaosc.org/BuckeyeKankakeeGas)

[www.kankakeeroute113release.com](http://www.kankakeeroute113release.com) - PRP Website

##### **6.2 Reporting Schedule**

POLREPS will be issued ongoing.

#### **7. Situational Reference Materials**

No information available at this time.

U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region V**

**Subject:** POLREP #4  
 progress  
 Buckeye Pipeline - Kankakee Gasoline Spill  
  
 Kankakee, IL  
 Latitude: 41.1435080 Longitude: -87.9022360

**To:**  
**From:** Ramon Mendoza, OSC  
**Date:** 3/19/2014  
**Reporting Period:** progress

## 1. Introduction

### 1.1 Background

|                                     |  |
|-------------------------------------|--|
| <b>Site Number:</b>                 | <b>Contract Number:</b>                  |
| <b>D.O. Number:</b>                 | <b>Action Memo Date:</b>                 |
| <b>Response Authority:</b> OPA      | <b>Response Type:</b> Emergency          |
| <b>Response Lead:</b> PRP           | <b>Incident Category:</b> Removal Action |
| <b>NPL Status:</b> Non NPL          | <b>Operable Unit:</b>                    |
| <b>Mobilization Date:</b> 3/14/2014 | <b>Start Date:</b> 3/14/2014             |
| <b>Demob Date:</b>                  | <b>Completion Date:</b>                  |
| <b>CERCLIS ID:</b>                  | <b>RCRIS ID:</b>                         |
| <b>ERNS No.:</b>                    | <b>State Notification:</b> 03/14/2014    |
| <b>FPN#:</b> E14508                 | <b>Reimbursable Account #:</b>           |

#### 1.1.1 Incident Category

Petroleum release (suspected gasoline and gasoline/diesel transmix) in drainage ditch and pasture near Buckeye pipelines in Kankakee, IL

#### 1.1.2 Site Description

The two Buckeye pipelines where the petroleum sheen was encountered are located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

##### 1.1.2.1 Location

IL-113 and Indian Trail Road, Kankakee, IL

### 1.1.2.2 Description of Threat

There is a threat to the Kankakee River and groundwater from a gasoline release. Residents located east of the site are on private wells. The drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline and drainage ditch may provide a conduit for gasoline to travel to the navigable waterway.

### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two 8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. One pipeline was carrying gasoline and the other a transmix of gasoline and diesel. Both pipelines are leaking. The exact locations of the leaks along the pipeline are not identified yet, however they are believed to be within the casing underneath State Route 113. The release was initially estimated at 500 gallons but is now estimated to be between 1,000 and 1,500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There are no reports of impacts to the Kankakee River.

#### 2.1.2 Response Actions to Date

The following response actions occurred during the day time operations on 3/17/14 from 0700 to 1900:

Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation and T&D operations. CRA conducted air monitoring and sampling activities. Antea Group conducted soil and residential drinking water sampling.

- Buckeye contractors continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Replacement pipeline sections were delivered. They were welded together to form the 2 replacement pipelines - 1-100 foot long, and 1-160 foot long pipeline.
- Buckeye contractors finished excavating soil from portion of pipes that run under IL-113. Both pipes were tapped in preparation for pumping and vacuuming remaining product from pipelines. Pipe tapping was overseen by personnel from USCG.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. A total of eight AreaRAEs were operating. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area. START monitored their live AreaRAE data periodically throughout day.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-10 ppm in the excavation area and non-detects in the residential area. Benzene readings were non-detect in the excavation and residential. Carbon Monoxide was non-detect in the residential and excavation area.
- Antea Group performed PID screening and sheen test on soil waste disposal pile currently staged south of Zone 1. Weston provided oversight of soil screening and performed sheen tests on the 2 soil samples with the highest and lowest readings.
- Antea Group conducted five soil boring samples using hand auger. The soil borings were then screened with a PID. The section with the highest PID reading had a soil sample collected from there. This brings total soil boring locations up to 18. They also collected 6 samples from



excavation pit sidewalls beneath roadway, 3 on east side, 3 on west at 20 foot intervals. The highest PID reading was 2,326 ppm, the lowest was 6.0 ppm. START split 2 of these 6 samples. Samples will be submitted to a lab and analyzed for VOCs, PAHs, and TPH as DRO and GRO. Weston provided oversight of Antea Group's soil sampling activities.

- Antea Group continued collecting drinking water samples from residential homes.

**The following response actions occurred during night operations from 3/17/14 (1700) to 3/18/14 (0700):**

- Buckeye Pipeline contractors onsite included Future Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation, pipe cutting and T&D operations. CRA conducted air monitoring and sampling activities.
- Buckeye contractors continued removing impacted water from the excavation area, ponded area, and at the ditch near 1726 Indian trail road. Twelve soil trucks were hauled off Site.
- Buckeye contractors tapped the pipe using pneumatic drill. Product from the pipes were transferred into tanker trucks and hauled off site.
- Buckeye contractors excavated the top 6 inches of soil from the eastern portion of the field in Zone 2, along the mat road. Excavation extends approximately 200 linear feet north of IL-113.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in areas of the spill and the residential area. Eight AreaRAE units are stationed surrounding the Site. In addition, MultiRAEs and Benzene UltraRAEs are used near the source and residential area. VOC readings ranged from 0-5 ppm PID. Benzene readings were non-detect.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-56 ppm in the excavation area and 0-0.4 ppm in the residential area. Benzene readings were 0-0.45 in the excavation and non-detect in the residential area. Carbon Monoxide was non-detect in the excavation and residential area.

### **2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)**

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

### **2.1.4 Progress Metrics**

Waste is being staged at Buckeye terminal. The soil will go to Laraway Landfill in Joliet, IL, product waste will go to Beaver oil and water/boom/PPE will go to Aaron oil in Alabama.

| <i><b>Waste Stream</b></i> | <i><b>Medium</b></i> | <i><b>Quantity</b></i> | <i><b>Manifest #</b></i> | <i><b>Treatment</b></i> | <i><b>Disposal</b></i>                   |
|----------------------------|----------------------|------------------------|--------------------------|-------------------------|--|
| soil                       |                      | 830 yd3                |                          |                         | staged at Buckeye terminal               |
| water                      |                      | 31,100 gal             |                          |                         | staged in frac tanks at Buckeye terminal |
| skimmed product            |                      | 266 gal                |                          |                         | staged in frac tanks at Buckeye terminal |

## **2.2 Planning Section**

### **2.2.1 Anticipated Activities**

#### **2.2.1.1 Planned Response Activities**

Ensure the health and safety of responders and the public  
 Expose pipeline underneath highway, cut out suspect pipeline length (approx 100 ft/pipeline)  
 Construct, hydrostatic test, install, weld and test new length of pipeline  
 Inspect suspect pipeline length at nearby Kankakee Terminal.  
 Delineate extent of contamination via groundwater, soil, and residential well sampling  
 Monitor the Kankakee River for possible impacts  
 Excavate impacted soils  
 Collect impacted water, soil, and petroleum  
 Conduct monitoring and sampling, as necessary  
 Conduct oversight of Buckeye Operations  
 Document response activities.

#### **2.2.1.2 Next Steps**

Buckeye Partners and Kankakee County Health has released a press release/statement indicating drinking water areas of concern and identify areas that are safe for drinking and use. It can be viewed at [www.kankakeeroute113release.com](http://www.kankakeeroute113release.com).

#### **2.2.2 Issues**

Documentation of off-site release of gasoline / product to the North of the Pipeline release point.

### **2.3 Logistics Section**

START is providing monitoring, documentation, and oversight support. Buckeye Pipeline has mobilized vac trucks, excavation equipment, monitoring, and sampling equipment. The Incident Command Post is at the Hilton Garden Inn in Kankakee (455 Riverstone Parkway, Kankakee, IL 60901).

### **2.4 Finance Section**

#### **2.4.1 Narrative**

An FPN was issued for \$80,000. OSC is monitoring EPA and START costs.

### **2.5 Other Command Staff**

#### **2.5.1 Safety Officer**

EPA and START are providing health and safety oversight. US Coast Guard will provide additional Safety oversight as of 1200 3/17/14.

#### **2.5.2 Liaison Officer**

#### **2.5.3 Information Officer**

Francisco Arcuate

### **3. Participating Entities**

#### **3.1 Unified Command**

USEPA, Buckeye Pipeline, Kankakee County EMA, Illinois EPA

#### **3.2 Cooperating Agencies**

Limestone Fire Department  
 Kankakee County Health Department  
 Kankakee Police Department  
 United States Coast Guard  
 ATSDR

### **4. Personnel On Site**

EPA 2

START 5

USCG - 2

Buckeye / Contractors 80

## **5. Definition of Terms**

No information available at this time.

## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

[www.epaosc.org/BuckeyeKankakeeGas](http://www.epaosc.org/BuckeyeKankakeeGas)

[www.kankakeeroute113release.com](http://www.kankakeeroute113release.com) - PRP Website

### **6.2 Reporting Schedule**

POLREPS will be issued ongoing.

## **7. Situational Reference Materials**

No information available at this time.

U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region V**

**Subject:** POLREP #5  
 Progress  
 Buckeye Pipeline - Kankakee Gasoline Spill  
  
 Kankakee, IL  
 Latitude: 41.1435080 Longitude: -87.9022360

**To:**  
**From:** Ramon Mendoza, OSC  
**Date:** 3/18/2014  
**Reporting Period:** 3/18/2014 to 3/19/2014

## 1. Introduction

### 1.1 Background

|                            |           |                                |                |
|----------------------------|-----------|--------------------------------|----------------|
| <b>Site Number:</b>        | Z5MX      | <b>Contract Number:</b>        |                |
| <b>D.O. Number:</b>        |           | <b>Action Memo Date:</b>       |                |
| <b>Response Authority:</b> | OPA       | <b>Response Type:</b>          | Emergency      |
| <b>Response Lead:</b>      | PRP       | <b>Incident Category:</b>      | Removal Action |
| <b>NPL Status:</b>         | Non NPL   | <b>Operable Unit:</b>          |                |
| <b>Mobilization Date:</b>  | 3/14/2014 | <b>Start Date:</b>             | 3/14/2014      |
| <b>Demob Date:</b>         |           | <b>Completion Date:</b>        |                |
| <b>CERCLIS ID:</b>         |           | <b>RCRIS ID:</b>               |                |
| <b>ERNS No.:</b>           |           | <b>State Notification:</b>     | 03/14/2014     |
| <b>FPN#:</b>               | E14508    | <b>Reimbursable Account #:</b> |                |

#### 1.1.1 Incident Category

Petroleum release (suspected gasoline and gasoline/diesel transmix) in drainage ditch and pasture near Buckeye pipelines in Kankakee, IL

#### 1.1.2 Site Description

The two Buckeye pipelines where the petroleum sheen was encountered are located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

##### 1.1.2.1 Location

IL-113 and Indian Trail Road, Kankakee, IL



### 1.1.2.2 Description of Threat

There is a threat to the Kankakee River and groundwater from a gasoline release. Residents located east of the site are on private wells. The drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline and drainage ditch may provide a conduit for gasoline to travel to the navigable waterway.

### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two 8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. One pipeline was carrying gasoline and the other a transmix of gasoline and diesel. Both pipelines are leaking. The exact locations of the leaks along the pipeline are not identified yet, however they are believed to be within the casing underneath State Route 113. The release was initially estimated at 500 gallons but is now estimated to be between 1,000 and 1,500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There are no reports of impacts to the Kankakee River.

#### 2.1.2 Response Actions to Date

**Response actions previous to 3/18/14 0700 are documented in previous Polreps 1 thru 4.**

**The following response actions occurred during the day time operations on 3/18/14 from 0700 to 1900:**

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation and T&D operations. CRA conducted air monitoring and sampling activities. Antea Group conducted soil and residential drinking water sampling.
- Buckeye contractors continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Replacement pipeline sections were X-rayed and received hydrostatic testing.
- Buckeye contractors worked to extend pipeline excavation toward the south approximately 60 feet in order to fit the longer replacement pipelines into the excavation.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. A total of eight AreaRAEs were operating. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area. START monitored their live AreaRAE data periodically throughout day.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-5 ppm in the excavation area and non-detects in the residential area. Benzene readings were non-detect in the excavation and residential. Carbon Monoxide was non-detect in the residential and excavation area.
- Antea Group collected some material from pipeline casing and 4 soil samples of soil from around pipe sections under roadway for investigation.
- Antea Group conducted six soil borings using hand auger. The soil borings were then screened with a PID. The section with the highest PID reading had a soil sample collected from there. This brings total soil boring locations up to 26. Samples will be submitted to a lab and analyzed for VOCs, PAHs, and TPH as DRO and GRO. Weston provided oversight of Antea Group's soil

sampling activities.

- Antea Group continued collecting drinking water samples from residential homes.
- EPA OSC participated in the following meetings : Unified Command, Command & General Staff, Tactics, and Planning Meetings and provided input in Objectives, Planning, and Tactics as necessary.
- EPA OSC reviewed and approved Incident Action Plan for the next operating period.
- EPA OSC coordinating with Illinois EPA OSC and Kankakee Health Department.
- EPA OSC Met with USCG Safety Personnel and both parties agreed that adequate safety personnel have been provided by Buckeye and that the safety mission of the USCG has been fulfilled. USCG demobed from the Site at about 1530 hours.

**The following response actions occurred during night operations from 3/18/14 1700 to 3/19/14 0700:**

- Buckeye Pipeline contractors onsite included Future Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation, pipe cutting and T&D operations. CRA conducted air monitoring and sampling activities.
- Buckeye contractors continued removing impacted water from the excavation area, ponded area, and at the ditch near 1726 Indian trail road. Two soil trucks were hauled off Site.
- Buckeye contractors continued to extend excavation towards the south end of the pit to make room for new pipe.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in areas of the spill and the residential area. Eight AreaRAE units are stationed surrounding the Site. In addition, MultiRAEs and Benzene UltraRAEs are used near the source and residential area.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-8 ppm in the excavation area and 0-0.25 ppm in the residential area. They also found and reported (to OSC) free product coming out of the surface soil north of the pipeline excavation in Zone 2.

The following response actions occurred during the day time operations on 3/19/14 from 0700 to 1900:

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; Antea Group and Midwest Contractors. Future Environmental conducted vacuum truck operations. Midwest Construction conducted excavation and T&D operations. CRA conducted air monitoring and sampling activities. Antea Group conducted soil and residential drinking water sampling.
- Buckeye contractors continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Heavy morning rains brought a of oil sheen to soil surface, including free product flowing from area 30 feet north of excavation north wall . Product is surfacing and flowing in 0-6" scrape that was conducted the evening of 3/17. At the federal OSC direction, Buckeye crews dug interceptor pit, which filled will transmix free product. This product is being recovered from this pit.
- Buckeye contractors continued to extend pipeline excavation toward the south approximately 60 feet in order to fit the longer replacement pipelines into the excavation.
- Gold pipe (West pipe) was cut, drained, and removed from excavation site. It was set on IL-113 West of excavation site for field inspection tomorrow before being cleaned, cut, and sent to DNV's lab in Dublin, OH.
- New pipeline was placed in pit and connecting surfaces prepped for welding.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. A total of eight AreaRAEs were operating. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area. START monitored their live AreaRAE data periodically throughout day.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID, Benzene UltraRAE, and documented site activities. VOC readings range from 0-5 ppm in the excavation area and non-detects in the residential area. Benzene readings were non-detect in the excavation and residential.
- Antea Group collected soil samples from sidewall of excavation. Samples will be submitted to a lab and analyzed for VOCs, PAHs, and TPH as DRO and GRO. EPA contractor Weston provided oversight of Antea Group's soil sampling activities and split 5 samples

- Antea Group continued collecting drinking water samples from residential homes.
- EPA OSC participated in the following meetings : Unified Command, Command & General Staff, Tactics, and Planning Meetings and provided input in Objectives, Planning, and Tactics as necessary.
- EPA OSC reviewed and approved the Incident Action Plan for the next operating period.
- EPA OSC coordinating with Illinois EPA OSC and Kankakee Health Department.
- OSC Thomas arrived at about 1500 hours and met with OSC Mendoza to transition Federal OSC duties. OSC Thomas will take over the federal OSC lead onsite on 3/20/14.

### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

### 2.1.4 Progress Metrics

Waste is being staged at Buckeye terminal. The contaminated soil is going to Waste Management Laraway Landfill in Joliet, IL, Contaminated water and free product waste is being shipped to Beaver oil and water/boom/PPE will go to Aaron oil in Alabama.

| <i><b>Waste Stream</b></i> | <i><b>Medium</b></i> | <i><b>Quantity</b></i> | <i><b>Manifest #</b></i> | <i><b>Treatment</b></i> | <i><b>Disposal</b></i>                   |
|----------------------------|----------------------|------------------------|--------------------------|-------------------------|--|
| contaminated soil          |                      | 1049 yd3               |                          |                         | staged at Buckeye terminal               |
| contaminated water         |                      | 52,126 gal             |                          |                         | staged in frac tanks at Buckeye terminal |
| skimmed free product       |                      | 430 gal                |                          |                         | staged in frac tanks at Buckeye terminal |

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

#### 2.2.1.1 Planned Response Activities

Ensure the health and safety of responders and the public  
 Expose pipeline underneath highway, cut out suspect pipeline length (approx 100 ft/pipeline)  
 Construct, hydrostatic test, install, weld and test new length of pipeline  
 Inspect suspect pipeline length at nearby Kankakee Terminal.  
 Delineate extent of contamination via groundwater, soil, and residential well sampling  
 Monitor the Kankakee River for possible impacts  
 Excavate impacted soils  
 Collect impacted water, soil, and petroleum  
 Conduct monitoring and sampling, as necessary  
 Conduct oversight of Buckeye Operations  
 Document response activities.  
 At the request of Kankakee Health Department USEPA Will conduct a 24 hour air sampling upwind and downwind of the Site using Summa Canisters to confirm the non-detects in the Community. Sampling will be conducted for VOCs.

#### 2.2.1.2 Next Steps

Buckeye Partners and Kankakee County Health has released a press release/statement indicating drinking water areas of concern and identify areas that are safe for drinking and use. It can be viewed at [www.kankakeeroute113release.com](http://www.kankakeeroute113release.com).

### **2.2.2 Issues**

The site is contained and no release of oil to surface water (Kankakee River) has occurred.

## **2.3 Logistics Section**

START is providing monitoring, documentation, and oversight support 24 hours/day. Buckeye Pipeline has mobilized vac trucks, excavation equipment, monitoring, and sampling equipment. The Incident Command Post is at the Hilton Garden Inn in Kankakee (455 Riverstone Parkway, Kankakee, IL 60901).

## **2.4 Finance Section**

### **2.4.1 Narrative**

An FPN was issued for \$120,000. OSC is monitoring EPA and START costs.

EPA contractor WESTON has approved budget ceiling of \$73,000, with \$50,000 expended at this time.

## **2.5 Other Command Staff**

### **2.5.1 Safety Officer**

EPA and START are providing health and safety oversight.

### **2.5.2 Liaison Officer**

### **2.5.3 Information Officer**

Francisco Arcuate

## **3. Participating Entities**

### **3.1 Unified Command**

USEPA Region 5, Buckeye Pipeline, Kankakee County EMA, Illinois EPA

### **3.2 Cooperating Agencies**

Limestone Fire Department  
Kankakee County Health Department  
Kankakee Police Department  
United States Coast Guard  
ATSDR

## **4. Personnel On Site**

EPA 1 (second OSC arrived 3/19 at 1500 hrs)

START 3 (down to 2 as of 0900 on 3/19)

USCG - 1 (Demobed 3/18 at 1530 hrs)  
Buckeye / Contractors 80

## **5. Definition of Terms**

No information available at this time.



## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

[www.epaosc.org/BuckeyeKankakeeGas](http://www.epaosc.org/BuckeyeKankakeeGas)

[www.kankakeeroute113release.com](http://www.kankakeeroute113release.com) - PRP Website

### **6.2 Reporting Schedule**

POLREPS will be issued ongoing.

## **7. Situational Reference Materials**

No information available at this time.

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region V**

**Subject:** POLREP #6  
Buckeye Pipeline - Kankakee Gasoline Spill  
  
Kankakee, IL  
Latitude: 41.1435080 Longitude: -87.9022360

**To:**  
**From:** Craig Thomas, OSC  
**Date:** 3/20/2014  
**Reporting Period:** 3/19/2014-3/20/14

## 1. Introduction

### 1.1 Background

|                            |           |                                |                |
|----------------------------|-----------|--------------------------------|----------------|
| <b>Site Number:</b>        | Z5MX      | <b>Contract Number:</b>        |                |
| <b>D.O. Number:</b>        |           | <b>Action Memo Date:</b>       |                |
| <b>Response Authority:</b> | OPA       | <b>Response Type:</b>          | Emergency      |
| <b>Response Lead:</b>      | PRP       | <b>Incident Category:</b>      | Removal Action |
| <b>NPL Status:</b>         | Non NPL   | <b>Operable Unit:</b>          |                |
| <b>Mobilization Date:</b>  | 3/14/2014 | <b>Start Date:</b>             | 3/14/2014      |
| <b>Demob Date:</b>         |           | <b>Completion Date:</b>        |                |
| <b>CERCLIS ID:</b>         |           | <b>RCRIS ID:</b>               |                |
| <b>ERNS No.:</b>           |           | <b>State Notification:</b>     | 03/14/2014     |
| <b>FPN#:</b>               | E14508    | <b>Reimbursable Account #:</b> |                |

#### 1.1.1 Incident Category

Petroleum release (suspected gasoline and gasoline/diesel transmix) in drainage ditch and pasture near Buckeye pipelines in Kankakee, IL

#### 1.1.2 Site Description

The two Buckeye pipelines where the petroleum sheen was encountered are located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

##### 1.1.2.1 Location

IL-113 and Indian Trail Road, Kankakee, IL

### 1.1.2.2 Description of Threat

There is a threat to the Kankakee River and groundwater from a gasoline release. Residents located east of the site are on private wells. The drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline and drainage ditch may provide a conduit for gasoline to travel to the navigable waterway.

### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two 8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. One pipeline was carrying gasoline and the other a transmix of gasoline and diesel. Both pipelines are leaking. The exact locations of the leaks along the pipeline are not identified yet, however they are pressure testing of replace lines confirm that they were withing casing underneath State Route 113. The release was itially estimated at 500 gallons but is now estimated to be between 1,000 and 1,500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There are no reports of impacts to the Kankakee River.

#### 2.1.2 Response Actions to Date

**Response actions previous to 3/19/14 1900 are documented in previous Polreps 1 thru 5.**

**The following response actions occurred during operations from 3/19/14 1900 to 3/20/14 1900:**

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; Antea Group and Midwest Contractors.
- Future Environmental continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. A total of eight AreaRAEs were operating. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area. START monitored their live AreaRAE data periodically throughout day.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID. VOC readings range from 0-3 ppm in the excavation area and non-detects in the residential area. START deployed 3 Summa Canisters, 1 upwind and 2 downwind of the suspected source area. The samples will be run 24-hours and submitted for TO-15 analysis.
- SET and vac trucks staged at Zone 3 in the event of a release during pressure test. START documented staging; no sheen was observed.
- Gold and blue replacement pipelines passed pressure test.
- Field inspection of gold and blue pipelines revealed 2 approximately 3/4" to 1" areas (1 per pipeline) of high arc potential; the areas on each pipe were observed to be within a few feet of each other. Buckeye will continue investigation into the cause of the release.
- Antea Group collected sidewall samples from excavation pit after pressure tests.
- Antea Group continued collecting drinking water samples from residential homes. START split 2 samples which will be submitted for VOC and PNA analysis.
- EPA OSC participated in the following meetings : Unified Command, Command & General Staff, and Planning Meetings and provided input in Objectives, Planning, and Tactics as necessary.

- EPA OSC reviewed and approved Incident Action Plan for the next operating period.
- EPA OSC coordinating with Illinois EPA OSC and Kankakee Health Department.

### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

### 2.1.4 Progress Metrics

Waste is being staged at Buckeye terminal. The contaminated soil is going to Waste Management Laraway Landfill in Joliet, IL, Contaminated water and free product waste is being shipped to Beaver oil and water/boom/PPE will go to Aaron oil in Alabama.

| <i><b>Waste Stream</b></i> | <i><b>Medium</b></i> | <i><b>Quantity</b></i> | <i><b>Manifest #</b></i> | <i><b>Treatment</b></i> | <i><b>Disposal</b></i>                   |
|----------------------------|----------------------|------------------------|--------------------------|-------------------------|--|
| contaminated soil          |                      | 1049 yd3               |                          |                         | staged at Buckeye terminal               |
| contaminated water         |                      | 55,160 gal             |                          |                         | staged in frac tanks at Buckeye terminal |
| skimmed free product       |                      | 430 gal                |                          |                         | staged in frac tanks at Buckeye terminal |

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

#### 2.2.1.1 Planned Response Activities

Ensure the health and safety of responders and the public

Transition site to Illinois EPA for further delineation of the extent of contamination via groundwater, soil, and additional residential well sampling

Monitor the Kankakee River for possible impacts

Collect impacted water, soil, and petroleum, as necessary

Conduct monitoring and sampling, as necessary

Conduct oversight of Buckeye Operations

Document response activities

At the request of Kankakee Health Department USEPA will complete collection of 24-hour air samples upwind and downwind of the Site using Summa Canisters to confirm the non-detects in the Community. Sampling will be conducted for VOCs

#### 2.2.1.2 Next Steps

Buckeye Partners and Kankakee County Health have released a press release/statement indicating drinking water areas of concern and identify areas that are safe for drinking and use. It can be viewed at [www.kankakeeroute113release.com](http://www.kankakeeroute113release.com).

### 2.2.2 Issues

The site is contained and no release of oil to surface water (Kankakee River) has occurred.

## 2.3 Logistics Section

START is providing monitoring, documentation, and oversight support 24 hours/day, as needed.

Buckeye Pipeline has mobilized vac trucks, excavation equipment, monitoring, and sampling



equipment. The Incident Command Post is at the Hilton Garden Inn in Kankakee (455 Riverstone Parkway, Kankakee, IL 60901).

## **2.4 Finance Section**

### **2.4.1 Narrative**

An FPN was issued for \$120,000. OSC is monitoring EPA and START costs.

EPA contractor WESTON has approved budget ceiling of \$73,000, with \$60,000 expended at this time.

## **2.5 Other Command Staff**

### **2.5.1 Safety Officer**

EPA and START are providing health and safety oversight.

### **2.5.2 Liaison Officer**

### **2.5.3 Information Officer**

Francisco Arcuate

## **3. Participating Entities**

### **3.1 Unified Command**

USEPA Region 5, Buckeye Pipeline, Kankakee County EMA, Illinois EPA

### **3.2 Cooperating Agencies**

Limestone Fire Department  
Kankakee County Health Department  
Kankakee Police Department  
United States Coast Guard  
ATSDR

## **4. Personnel On Site**

EPA 1

START 4 (2 night shift/2 day shift)

Buckeye / Contractors 80

## **5. Definition of Terms**

No information available at this time.

## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

[www.epaosc.org/BuckeyeKankakeeGas](http://www.epaosc.org/BuckeyeKankakeeGas)

[www.kankakeeroute113release.com](http://www.kankakeeroute113release.com) - PRP Website

### **6.2 Reporting Schedule**

POLREPS will be issued ongoing.

## **7. Situational Reference Materials**

No information available at this time.

U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region V**

**Subject:** POLREP #7  
 Buckeye Pipeline - Kankakee Gasoline Spill

Kankakee, IL  
 Latitude: 41.1435080 Longitude: -87.9022360

**To:**

**From:** Craig Thomas, OSC

**Date:** 3/21/2014

**Reporting Period:** 3/20/14-3/21/14

## 1. Introduction

### 1.1 Background

|                            |           |                                |                |
|----------------------------|-----------|--------------------------------|----------------|
| <b>Site Number:</b>        | Z5MX      | <b>Contract Number:</b>        |                |
| <b>D.O. Number:</b>        |           | <b>Action Memo Date:</b>       |                |
| <b>Response Authority:</b> | OPA       | <b>Response Type:</b>          | Emergency      |
| <b>Response Lead:</b>      | PRP       | <b>Incident Category:</b>      | Removal Action |
| <b>NPL Status:</b>         | Non NPL   | <b>Operable Unit:</b>          |                |
| <b>Mobilization Date:</b>  | 3/14/2014 | <b>Start Date:</b>             | 3/14/2014      |
| <b>Demob Date:</b>         | 3/21/2014 | <b>Completion Date:</b>        |                |
| <b>CERCLIS ID:</b>         |           | <b>RCRIS ID:</b>               |                |
| <b>ERNS No.:</b>           |           | <b>State Notification:</b>     | 03/14/2014     |
| <b>FPN#:</b>               | E14508    | <b>Reimbursable Account #:</b> |                |

#### 1.1.1 Incident Category

Petroleum release (suspected gasoline and gasoline/diesel transmix) in drainage ditch and pasture near Buckeye pipelines in Kankakee, IL

#### 1.1.2 Site Description

The two Buckeye pipelines where the petroleum sheen was encountered are located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

##### 1.1.2.1 Location

IL-113 and Indian Trail Road, Kankakee, IL

### 1.1.2.2 Description of Threat

There is a threat to the Kankakee River and groundwater from a gasoline release. Residents located east of the site are on private wells. The drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline and drainage ditch may provide a conduit for gasoline to travel to the navigable waterway.

### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two 8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. One pipeline was carrying gasoline and the other a transmix of gasoline and diesel. Both pipelines are leaking. The exact locations of the leaks along the pipeline are not identified yet, however they are pressure testing of replace lines confirm that they were withing casing underneath State Route 113. The release was itially estimated at 500 gallons but is now estimated to be between 1,000 and 1,500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There are no reports of impacts to the Kankakee River.

#### 2.1.2 Response Actions to Date

**Response actions previous to 3/20/14 1900 are documented in previous Polreps 1 thru 6.**

**The following response actions occurred during operations from 3/20/14 1900 to 3/21/14 1100:**

- Buckeye Pipeline contractors onsite included Future Environmental; SET Environmental; CRA; Antea Group and Midwest Contractors.
- Future Environmental continued removing impacted water from the suspected source area, interceptor trench, ponded area, and at the ditch near 1726 Indian trail road, as needed.
- Buckeye's contractor, CRA, performed air monitoring during excavation, in the spill areas and the residential area. A total of eight AreaRAEs were operating. In addition, MultiRAEs and Benzene UltraRAEs are used near the excavation and residential area. START monitored their live AreaRAE data periodically throughout the morning of March 21.
- U.S. EPA's contractor, Weston, performed air monitoring with a MultiRAE PID. VOC readings range from 0-3 ppm in the excavation area and non-detects in the residential area. START deployed 3 Summa Canisters, 1 upwind and 2 downwind of the suspected source area. The samples were run approximatley 24-hours and submitted for TO-15 analysis. Samples were retrieved at approximately 10:30 am.
- SET and vac trucks staged at Zone 3 in the event of a release during pressure test. START documented staging; no sheen was observed.
- Buckeye's contractors "jeeped" the gold and blue replacement pipelines to identify any thin spots in the protective coating, and addressed them as necessary.
- Buckeye meet with a representative of the Illinois Department of Transportation to discuss requirements for restoring State Route 113.
- Buckeye's contractors then began backfilling around the 2 new sections of pipeline.
- Buckeye will continue investigation into the cause of the release.
- Buckeye began removal of additonal potentially impacted soil north of State Route 113.
- Antea Group collected additional sidewall samples from excavation pit after pressure tests.
- Antea Group also collected additional soil samples from the "ATV trail area"

- All incident command meetings were suspended as the incident moved beyond the emergency phase.
- EPA OSC reviewed and approved Incident Action Plan for the next multi-day operating period.
- EPA OSC coordinating with Illinois EPA OSC and Kankakee Health Department.
- EPA OSC turned over the incident to Illinois EPA.

### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

### 2.1.4 Progress Metrics

Waste is being staged at Buckeye terminal. The contaminated soil is going to Waste Management Laraway Landfill in Joliet, IL, Contaminated water and free product waste is being shipped to Beaver oil and water/boom/PPE will go to Aaron oil in Alabama.

| <i><b>Waste Stream</b></i> | <i><b>Medium</b></i> | <i><b>Quantity</b></i> | <i><b>Manifest #</b></i> | <i><b>Treatment</b></i> | <i><b>Disposal</b></i>                   |
|----------------------------|----------------------|------------------------|--------------------------|-------------------------|--|
| contaminated soil          |                      | 1049 yd3               |                          |                         | staged at Buckeye terminal               |
| contaminated water         |                      | 55,160 gal             |                          |                         | staged in frac tanks at Buckeye terminal |
| skimmed free product       |                      | 430 gal                |                          |                         | staged in frac tanks at Buckeye terminal |

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

#### 2.2.1.1 Planned Response Activities

At the request of Kankakee Health Department USEPA completed collection of 24-hour air samples upwind and downwind of the Site using Summa Canisters to confirm the non-detects in the Community. Samples were submitted to the lab on the afternoon of March 21.

#### 2.2.1.2 Next Steps

Results of the Summa Cansiter sampling will be shared with the Kankakee Health Department and Illinois EPA as soon as they have been received and validated.

### 2.2.2 Issues

The site is contained, the pipelines have been replaced, and no release of oil to surface water (Kankakee River) occurred.

## 2.3 Logistics Section

U.S. EPA and START have demobilized from the site.

## 2.4 Finance Section

### 2.4.1 Narrative

An FPN was issued for \$120,000. OSC is monitoring EPA and START costs.



EPA contractor WESTON has approved budget ceiling of \$73,000, with \$70,000 expended at this time.

## **2.5 Other Command Staff**

### **2.5.1 Safety Officer**

EPA and START provided health and safety oversight.

### **2.5.2 Liaison Officer**

### **2.5.3 Information Officer**

Francisco Arcuate

## **3. Participating Entities**

### **3.1 Unified Command**

USEPA Region 5, Buckeye Pipeline, Kankakee County EMA, Illinois EPA

### **3.2 Cooperating Agencies**

Limestone Fire Department  
Kankakee County Health Department  
Kankakee Police Department  
United States Coast Guard  
ATSDR

## **4. Personnel On Site**

1 EPA OSC and 2 START were on Site for this reporting period. All EPA and START personnel have demobilized from the site.

## **5. Definition of Terms**

No information available at this time.

## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

[www.epaosc.org/BuckeyeKankakeeGas](http://www.epaosc.org/BuckeyeKankakeeGas)

[www.kankakeeroute113release.com](http://www.kankakeeroute113release.com) - PRP Website

### **6.2 Reporting Schedule**

POLREPS will be issued ongoing.

## **7. Situational Reference Materials**

No information available at this time.

U.S. ENVIRONMENTAL PROTECTION AGENCY  
 POLLUTION/SITUATION REPORT  
 Buckeye Pipeline - Kankakee Gasoline Spill - Removal Polrep  
 Final Removal Polrep



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 Region V**

**Subject:**           **POLREP #8**  
                           **Final PolRep**  
                           **Buckeye Pipeline - Kankakee Gasoline Spill**  
  
                           **Kankakee, IL**  
                           **Latitude: 41.1435080 Longitude: -87.9022360**

**To:**  
**From:**           Craig Thomas, OSC  
**Date:**           3/27/2014  
**Reporting Period:** 3/21/14 - 3/27/14

## **1. Introduction**

### **1.1 Background**

|                            |           |                                |                |
|----------------------------|-----------|--------------------------------|----------------|
| <b>Site Number:</b>        | Z5MX      | <b>Contract Number:</b>        |                |
| <b>D.O. Number:</b>        |           | <b>Action Memo Date:</b>       |                |
| <b>Response Authority:</b> | OPA       | <b>Response Type:</b>          | Emergency      |
| <b>Response Lead:</b>      | PRP       | <b>Incident Category:</b>      | Removal Action |
| <b>NPL Status:</b>         | Non NPL   | <b>Operable Unit:</b>          |                |
| <b>Mobilization Date:</b>  | 3/14/2014 | <b>Start Date:</b>             | 3/14/2014      |
| <b>Demob Date:</b>         | 3/21/2014 | <b>Completion Date:</b>        | 3/27/2014      |
| <b>CERCLIS ID:</b>         |           | <b>RCRIS ID:</b>               |                |
| <b>ERNS No.:</b>           |           | <b>State Notification:</b>     | 03/14/2014     |
| <b>FPN#:</b>               | E14508    | <b>Reimbursable Account #:</b> |                |

#### **1.1.1 Incident Category**

Petroleum release (suspected gasoline and gasoline/diesel transmix) in drainage ditch and pasture near Buckeye pipelines in Kankakee, IL

#### **1.1.2 Site Description**

The two Buckeye pipelines where the petroleum sheen was encountered are located on IL-113 between Indian Trail Road and Stone Creek Road (1500 W Road) in Kankakee, IL. The site is in a mixed rural and residential area and is located approximately 1500 feet south of the Kankakee River. The drainage ditch where the sheen was located is on the south side of IL-113 and flows west towards a culvert which runs north under IL-113 and toward the Kankakee River.

##### **1.1.2.1 Location**

IL-113 and Indian Trail Road, Kankakee, IL

### **1.1.2.2 Description of Threat**

There is a threat to the Kankakee River and groundwater from a gasoline release. Residents located east of the site are on private wells. The drainage ditch flows to the Kankakee River approximately 1500 feet north of the site. Gasoline / product was observed at the surface in a residential yard to the North of the release point. The pipeline crosses under the Kankakee River which is located approximately 1200 feet from the yard. The pipeline and drainage ditch may provide a conduit for gasoline to travel to the navigable waterway.

### **1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results**

Buckeye is excavating near their pipelines to see if there is indeed a pipeline break and what impacts to soil and groundwater occurred.

## **2. Current Activities**

### **2.1 Operations Section**

#### **2.1.1 Narrative**

On the morning of March 14, 2014, Buckeye Pipeline reported a release of gasoline from the vicinity of two 8-inch pipelines (162 and 163) near the intersection of State Route 113 and Indian Trail Road, Kankakee, Kankakee County, Illinois 60691. One pipeline was carrying gasoline and the other a transmix of gasoline and diesel. Both pipelines are leaking. The exact locations of the leaks along the pipeline are not identified yet, however they are pressure testing of replace lines confirm that they were withing casing underneath State Route 113. The release was itially estimated at 500 gallons but is now estimated to be between 1,000 and 1,500 gallons. There is a drainage ditch located west of the suspected release location which leads to the Kankakee River which is located approximately 0.5 miles to the North. A residential community is also located approximately 0.25 miles to the North. There are no reports of impacts to the Kankakee River.

#### **2.1.2 Response Actions to Date**

**Response actions previous to 3/21/14 1100 are documented in previous Polreps 1 thru 7.**

**The following response actions occurred during operations from 3/21/14 1100 to 3/27/14 1000:**

- Buckeye continued to provide updates on progress metrics and provide laboratory analysis results from environmental samples.
- Buckeye has made preparations to begin installing an initial 6 shallow ground water monitoring wells. Illinois EPA will be working with Buckeye on this effort.
- U.S. EPA's contractor, Weston, received laboratory results from the 3 Summa Canisters, (1 upwind and 2 downwind of the suspected source area) which were collected on March 21, 2014. EPA provided these results to ATSDR for review. Based on that review, all results were well below a level which would impact human health.
- EPA OSC coordinated with Illinois EPA OSC and Kankakee Health Department regarding results of EPA samples.

#### **2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)**

The responsible party, Buckeye Pipeline has deployed contractors to address the release. On March 14, 2014, OSC Atkociunas issued Buckeye Pipeline personnel a Notice of Federal Interest, which was signed.

#### **2.1.4 Progress Metrics**

Waste is being staged at Buckeye terminal. The contaminated soil is going to Waste Management Laraway Landfill in Joliet, IL, Contaminated water and free product waste is being shipped to Beaver oil and water/boom/PPE will go to Aaron oil in Alabama.

| <b>Waste Stream</b>  | <b>Medium</b> | <b>Quantity</b> | <b>Manifest #</b> | <b>Treatment</b> | <b>Disposal</b>                         |
|----------------------|---------------|-----------------|-------------------|------------------|---|
| contaminated soil    |               | 1252 yd3        |                   |                  | Shipped to Laraway Landfill, Joliet, IL |
| contaminated water   |               | 89,878 gal      |                   |                  | Shipped to Beaver Oil                   |
| skimmed free product |               | 430 gal         |                   |                  | Shipped to Beaver Oil                   |

| Regional Metrics  |   |  |
|---|---|--|
| This is an Integrated River Assessment. The numbers should overlap. | Miles of river systems cleaned and/or restored                  | 0  |
|   | Cubic yards of contaminated sediments removed and/or capped     | 1252 yd3   |
|   | Gallons of oil/water recovered                                  | 90,308 gallons   |
|   | Acres of soil/sediment cleaned up in floodplains and riverbanks | 0  |
| Stand Alone Assessment  | Number of contaminated residential yards cleaned up             | 0  |
|   | Number of workers on site                                       | 80+  |
| Contaminant(s) of Concern   | Oil (gasoline and diesel)                                       |  |
| Oil response Tracking   |   |  |
| Estimated volume  | Initial amount released   | 1,500 gallons (estimated)  |
|   | Final amount collected  | Unknown (430 gallons product plus 89,878 gallons of oil/water mix and 1252 yd3 of impacted soil) |
| CANAPS Info   | FPN Ceiling Amount  | \$120,000  |
|   | FPN Number  | E14508   |
|   | Body of Water affected  | Threat to the Kankakee River   |
| Administrative and Logistical Factors (Check X where applicable)    |   |  |
| Precedent-Setting HQ Consultations (e.g., fracking, asbestos)       | Community challenges or high involvement                        | Radiological   |
| More than one PRP   | Endangered Species Act / Essential Fish Habitat issues          | Explosives   |
| AOC   | Historic preservation issues                                    | X Residential impacts  |
| UAO   | NPL site  | Relocation   |

|   |  |                                     |
|---|--|-------------------------------------|
| DOJ involved  | Remote location                          | <b>X</b> Drinking water impacted    |
| Criminal Investigation Division involved            | Extreme weather or abnormal field season | Environmental justice               |
| Tribal consultation or coordination or other issues | Congressional involvement                | High media interest                 |
| Statutory Exemption for \$2 Million                 | Statutory Exemption for 1 Year           | Active fire present                 |
| Hazmat Entry Conducted – Level A, B or C            | Incident or Unified Command established  | Actual air release (not threatened) |

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

#### 2.2.1.1 Planned Response Activities

All planned response activities have been completed and U.S. EPA has turned the incident over to Illinois EPA.

#### 2.2.1.2 Next Steps

None.

### 2.2.2 Issues

None.

## 2.3 Logistics Section

U.S. EPA and START demobilized from the site on 03/21/2014.

## 2.4 Finance Section

### 2.4.1 Narrative

An FPN was issued for \$120,000. OSC is monitoring EPA and START costs.

EPA contractor WESTON has approved budget ceiling of \$73,000, with approximately \$71,000 expended at this time.

### 2.5 Other Command Staff

No information available at this time.

## 3. Participating Entities

### 3.1 Unified Command

Unified Command has been dissolved.

## 4. Personnel On Site

All remaining EPA and START personnel demobilized from the site on 3/21/14.

## 5. Definition of Terms

No information available at this time.

## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

[www.epaosc.org/BuckeyeKankakeeGas](http://www.epaosc.org/BuckeyeKankakeeGas)

[www.kankakeeroute113release.com](http://www.kankakeeroute113release.com) - PRP Website

### **6.2 Reporting Schedule**

No further POLREPS will be issued.

## **7. Situational Reference Materials**

No information available at this time.



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**ATTACHMENT D**  
**LABORATORY ANALYTICAL REPORTS**

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**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

March 18, 2014

Weston Solutions  
20 North Wacker Drive  
Chicago, IL 60606

Telephone: (312) 424-3339  
Fax: (312) 424-3330

Analytical Report for STAT Workorder: 14030499 Revision 0

RE: 5-031714-000630-0001, Buckeye-Kankakee Spill

Dear Lisa Graczyk:

STAT Analysis received 10 samples for the referenced project on 3/17/2014 4:15:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

**Client:** Weston Solutions**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill**Lab Order:** 14030499**Work Order Sample Summary**

| Lab Sample ID | Client Sample ID         | Tag Number | Collection Date | Date Received |
|---------------|--------------------------|------------|-----------------|---------------|
| 14030499-001A | 1873 Springview Ln       |            | 3/16/2014       | 3/17/2014     |
| 14030499-001B | 1873 Springview Ln       |            | 3/16/2014       | 3/17/2014     |
| 14030499-002A | 1882 Springview Ln       |            | 3/16/2014       | 3/17/2014     |
| 14030499-002B | 1882 Springview Ln       |            | 3/16/2014       | 3/17/2014     |
| 14030499-003A | 1908 Springview Ln       |            | 3/16/2014       | 3/17/2014     |
| 14030499-003B | 1908 Springview Ln       |            | 3/16/2014       | 3/17/2014     |
| 14030499-004A | 2000B Springview Dr      |            | 3/16/2014       | 3/17/2014     |
| 14030499-004B | 2000B Springview Dr      |            | 3/16/2014       | 3/17/2014     |
| 14030499-005A | BKG-EX3-031614(0-2)      |            | 3/16/2014       | 3/17/2014     |
| 14030499-005B | BKG-EX3-031614(0-2)      |            | 3/16/2014       | 3/17/2014     |
| 14030499-006A | BKG-SB01-031514(0-2)     |            | 3/15/2014       | 3/17/2014     |
| 14030499-006B | BKG-SB01-031514(0-2)     |            | 3/15/2014       | 3/17/2014     |
| 14030499-007A | BKG-SB02-031514(0-2)     |            | 3/15/2014       | 3/17/2014     |
| 14030499-007B | BKG-SB02-031514(0-2)     |            | 3/15/2014       | 3/17/2014     |
| 14030499-008A | BKG-SB07-031614(0-2)     |            | 3/16/2014       | 3/17/2014     |
| 14030499-008B | BKG-SB07-031614(0-2)     |            | 3/16/2014       | 3/17/2014     |
| 14030499-009A | BKG-SB07-031614(2.0-2.3) |            | 3/16/2014       | 3/17/2014     |
| 14030499-009B | BKG-SB07-031614(2.0-2.3) |            | 3/16/2014       | 3/17/2014     |
| 14030499-010A | TB01-031514              |            | 3/15/2014       | 3/17/2014     |

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**CLIENT:** Weston Solutions  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Sp  
**Lab Order:** 14030499

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**CASE NARRATIVE**

Please refer to Analytical QC Summary Report for QC outliers.

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 18, 2014

**ANALYTICAL RESULTS**

Date Printed: March 18, 2014

Client: Weston Solutions

Client Sample ID: 1873 Springview Ln

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-001

| Analyses                                   | Result                       | RL     | Qualifier                   | Units | DF                 | Date Analyzed |
|--|------------------------------|--------|-----------------------------|-------|--------------------|---------------|
| <b>Polynuclear Aromatic Hydrocarbons</b>   |                              |        |                             |       |                    |               |
|  | <b>SW8270C-SIM (SW3510C)</b> |        | Prep Date: <b>3/17/2014</b> |       | Analyst: <b>DM</b> |               |
| Acenaphthene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Acenaphthylene                             | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Anthracene                                 | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(a)anthracene                         | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(a)pyrene                             | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(b)fluoranthene                       | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(g,h,i)perylene                       | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(k)fluoranthene                       | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Chrysene                                   | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Dibenz(a,h)anthracene                      | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Fluoranthene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Fluorene                                   | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                     | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Naphthalene                                | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Phenanthrene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Pyrene                                     | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b> |                              |        |                             |       |                    |               |
|  | <b>SW8260B (SW5030B)</b>     |        | Prep Date:                  |       | Analyst: <b>PS</b> |               |
| Acetone                                    | ND                           | 0.02   |                             | mg/L  | 1                  | 3/17/2014     |
| Benzene                                    | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromodichloromethane                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromoform                                  | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromomethane                               | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| 2-Butanone                                 | ND                           | 0.02   |                             | mg/L  | 1                  | 3/17/2014     |
| Carbon disulfide                           | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Carbon tetrachloride                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chlorobenzene                              | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chloroethane                               | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Chloroform                                 | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chloromethane                              | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Dibromochloromethane                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,1-Dichloroethane                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,2-Dichloroethane                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,1-Dichloroethene                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| cis-1,2-Dichloroethene                     | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                           | 0.001  |                             | mg/L  | 1                  | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                           | 0.001  |                             | mg/L  | 1                  | 3/17/2014     |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: 1873 Springview Ln

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-001

| Analyses                                   | Result                   | RL    | Qualifier | Units      | DF | Date Analyzed      |
|--|--------------------------|-------|-----------|------------|----|--------------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW8260B (SW5030B)</b> |       |           | Prep Date: |    | Analyst: <b>PS</b> |
| Ethylbenzene                               | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 2-Hexanone                                 | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014          |
| 4-Methyl-2-pentanone                       | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014          |
| Methylene chloride                         | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Methyl tert-butyl ether                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Styrene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,2,2-Tetrachloroethane                  | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Tetrachloroethene                          | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Toluene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,1-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,2-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Trichloroethene                            | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Vinyl chloride                             | ND                       | 0.002 |           | mg/L       | 1  | 3/17/2014          |
| Xylenes, Total                             | ND                       | 0.015 |           | mg/L       | 1  | 3/17/2014          |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 18, 2014

**ANALYTICAL RESULTS**

Date Printed: March 18, 2014

Client: Weston Solutions

Client Sample ID: 1882 Springview Ln

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-002

| Analyses                                   | Result                       | RL     | Qualifier                   | Units | DF                 | Date Analyzed |
|--|------------------------------|--------|-----------------------------|-------|--------------------|---------------|
| <b>Polynuclear Aromatic Hydrocarbons</b>   |                              |        |                             |       |                    |               |
|  | <b>SW8270C-SIM (SW3510C)</b> |        | Prep Date: <b>3/17/2014</b> |       | Analyst: <b>DM</b> |               |
| Acenaphthene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Acenaphthylene                             | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Anthracene                                 | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(a)anthracene                         | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(a)pyrene                             | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(b)fluoranthene                       | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(g,h,i)perylene                       | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(k)fluoranthene                       | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Chrysene                                   | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Dibenz(a,h)anthracene                      | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Fluoranthene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Fluorene                                   | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                     | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Naphthalene                                | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Phenanthrene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Pyrene                                     | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b> |                              |        |                             |       |                    |               |
|  | <b>SW8260B (SW5030B)</b>     |        | Prep Date:                  |       | Analyst: <b>PS</b> |               |
| Acetone                                    | ND                           | 0.02   |                             | mg/L  | 1                  | 3/17/2014     |
| Benzene                                    | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromodichloromethane                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromoform                                  | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromomethane                               | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| 2-Butanone                                 | ND                           | 0.02   |                             | mg/L  | 1                  | 3/17/2014     |
| Carbon disulfide                           | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Carbon tetrachloride                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chlorobenzene                              | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chloroethane                               | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Chloroform                                 | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chloromethane                              | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Dibromochloromethane                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,1-Dichloroethane                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,2-Dichloroethane                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,1-Dichloroethene                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| cis-1,2-Dichloroethene                     | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                           | 0.001  |                             | mg/L  | 1                  | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                           | 0.001  |                             | mg/L  | 1                  | 3/17/2014     |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

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R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: 1882 Springview Ln

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-002

| Analyses                                   | Result                   | RL    | Qualifier | Units      | DF | Date Analyzed      |
|--|--------------------------|-------|-----------|------------|----|--------------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW8260B (SW5030B)</b> |       |           | Prep Date: |    | Analyst: <b>PS</b> |
| Ethylbenzene                               | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 2-Hexanone                                 | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014          |
| 4-Methyl-2-pentanone                       | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014          |
| Methylene chloride                         | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Methyl tert-butyl ether                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Styrene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,2,2-Tetrachloroethane                  | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Tetrachloroethene                          | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Toluene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,1-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,2-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Trichloroethene                            | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Vinyl chloride                             | ND                       | 0.002 |           | mg/L       | 1  | 3/17/2014          |
| Xylenes, Total                             | ND                       | 0.015 |           | mg/L       | 1  | 3/17/2014          |

**Qualifiers:**

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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Date Reported: March 18, 2014

**ANALYTICAL RESULTS**

Date Printed: March 18, 2014

Client: Weston Solutions

Client Sample ID: 1908 Springview Ln

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-003

| Analyses                                   | Result                       | RL     | Qualifier                   | Units | DF                 | Date Analyzed |
|--|------------------------------|--------|-----------------------------|-------|--------------------|---------------|
| <b>Polynuclear Aromatic Hydrocarbons</b>   |                              |        |                             |       |                    |               |
|  | <b>SW8270C-SIM (SW3510C)</b> |        | Prep Date: <b>3/17/2014</b> |       | Analyst: <b>DM</b> |               |
| Acenaphthene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Acenaphthylene                             | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Anthracene                                 | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(a)anthracene                         | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(a)pyrene                             | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(b)fluoranthene                       | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(g,h,i)perylene                       | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(k)fluoranthene                       | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Chrysene                                   | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Dibenz(a,h)anthracene                      | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Fluoranthene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Fluorene                                   | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                     | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Naphthalene                                | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Phenanthrene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Pyrene                                     | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b> |                              |        |                             |       |                    |               |
|  | <b>SW8260B (SW5030B)</b>     |        | Prep Date:                  |       | Analyst: <b>PS</b> |               |
| Acetone                                    | ND                           | 0.02   |                             | mg/L  | 1                  | 3/17/2014     |
| Benzene                                    | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromodichloromethane                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromoform                                  | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromomethane                               | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| 2-Butanone                                 | ND                           | 0.02   |                             | mg/L  | 1                  | 3/17/2014     |
| Carbon disulfide                           | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Carbon tetrachloride                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chlorobenzene                              | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chloroethane                               | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Chloroform                                 | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chloromethane                              | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Dibromochloromethane                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,1-Dichloroethane                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,2-Dichloroethane                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,1-Dichloroethene                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| cis-1,2-Dichloroethene                     | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                           | 0.001  |                             | mg/L  | 1                  | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                           | 0.001  |                             | mg/L  | 1                  | 3/17/2014     |

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: 1908 Springview Ln

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-003

| Analyses                                   | Result                   | RL    | Qualifier | Units      | DF | Date Analyzed      |
|--|--------------------------|-------|-----------|------------|----|--------------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW8260B (SW5030B)</b> |       |           | Prep Date: |    | Analyst: <b>PS</b> |
| Ethylbenzene                               | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 2-Hexanone                                 | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014          |
| 4-Methyl-2-pentanone                       | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014          |
| Methylene chloride                         | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Methyl tert-butyl ether                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Styrene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,2,2-Tetrachloroethane                  | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Tetrachloroethene                          | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Toluene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,1-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,2-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Trichloroethene                            | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Vinyl chloride                             | ND                       | 0.002 |           | mg/L       | 1  | 3/17/2014          |
| Xylenes, Total                             | ND                       | 0.015 |           | mg/L       | 1  | 3/17/2014          |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

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S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

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Date Reported: March 18, 2014

**ANALYTICAL RESULTS**

Date Printed: March 18, 2014

Client: Weston Solutions

Client Sample ID: 2000B Springview Dr

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-004

| Analyses                                   | Result                       | RL     | Qualifier                   | Units | DF                 | Date Analyzed |
|--|------------------------------|--------|-----------------------------|-------|--------------------|---------------|
| <b>Polynuclear Aromatic Hydrocarbons</b>   |                              |        |                             |       |                    |               |
|  | <b>SW8270C-SIM (SW3510C)</b> |        | Prep Date: <b>3/17/2014</b> |       | Analyst: <b>DM</b> |               |
| Acenaphthene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Acenaphthylene                             | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Anthracene                                 | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(a)anthracene                         | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(a)pyrene                             | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(b)fluoranthene                       | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(g,h,i)perylene                       | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Benzo(k)fluoranthene                       | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Chrysene                                   | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Dibenz(a,h)anthracene                      | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Fluoranthene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Fluorene                                   | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                     | ND                           | 0.0001 |                             | mg/L  | 1                  | 3/18/2014     |
| Naphthalene                                | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Phenanthrene                               | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| Pyrene                                     | ND                           | 0.001  |                             | mg/L  | 1                  | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b> |                              |        |                             |       |                    |               |
|  | <b>SW8260B (SW5030B)</b>     |        | Prep Date:                  |       | Analyst: <b>PS</b> |               |
| Acetone                                    | ND                           | 0.02   |                             | mg/L  | 1                  | 3/17/2014     |
| Benzene                                    | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromodichloromethane                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromoform                                  | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Bromomethane                               | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| 2-Butanone                                 | ND                           | 0.02   |                             | mg/L  | 1                  | 3/17/2014     |
| Carbon disulfide                           | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Carbon tetrachloride                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chlorobenzene                              | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chloroethane                               | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Chloroform                                 | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| Chloromethane                              | ND                           | 0.01   |                             | mg/L  | 1                  | 3/17/2014     |
| Dibromochloromethane                       | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,1-Dichloroethane                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,2-Dichloroethane                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,1-Dichloroethene                         | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| cis-1,2-Dichloroethene                     | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                           | 0.005  |                             | mg/L  | 1                  | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                           | 0.001  |                             | mg/L  | 1                  | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                           | 0.001  |                             | mg/L  | 1                  | 3/17/2014     |

**Qualifiers:**

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HT - Sample received past holding time

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R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: 2000B Springview Dr

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-004

| Analyses                                   | Result                   | RL    | Qualifier | Units      | DF | Date Analyzed      |
|--|--------------------------|-------|-----------|------------|----|--------------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW8260B (SW5030B)</b> |       |           | Prep Date: |    | Analyst: <b>PS</b> |
| Ethylbenzene                               | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 2-Hexanone                                 | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014          |
| 4-Methyl-2-pentanone                       | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014          |
| Methylene chloride                         | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Methyl tert-butyl ether                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Styrene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,2,2-Tetrachloroethane                  | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Tetrachloroethene                          | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Toluene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,1-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| 1,1,2-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Trichloroethene                            | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014          |
| Vinyl chloride                             | ND                       | 0.002 |           | mg/L       | 1  | 3/17/2014          |
| Xylenes, Total                             | ND                       | 0.015 |           | mg/L       | 1  | 3/17/2014          |

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R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-EX3-031614(0-2)

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-005

| Analyses  | Result                   | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|---|--------------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: MDM  |
| TPH (GRO)   | ND                       | 23     |           | mg/Kg-dry | 1                    | 3/17/2014     |
| TPH (DRO)   | ND                       | 23     |           | mg/Kg-dry | 1                    | 3/17/2014     |
| TPH (ERO)   | ND                       | 23     | *         | mg/Kg-dry | 1                    | 3/17/2014     |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: DM   |
| Acenaphthene                                      | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Acenaphthylene                                    | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Anthracene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benz(a)anthracene                                 | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(a)pyrene                                    | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(b)fluoranthene                              | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(g,h,i)perylene                              | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(k)fluoranthene                              | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Chrysene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Dibenz(a,h)anthracene                             | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluoranthene                                      | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluorene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Naphthalene                                       | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Phenanthrene                                      | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Pyrene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b>        | <b>SW5035/8260B</b>      |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| Acetone   | ND                       | 0.071  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Benzene   | 0.0052                   | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromodichloromethane                              | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromoform   | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromomethane                                      | ND                       | 0.0095 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 2-Butanone  | ND                       | 0.071  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon disulfide                                  | ND                       | 0.047  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon tetrachloride                              | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chlorobenzene                                     | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroethane                                      | ND                       | 0.0095 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroform  | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloromethane                                     | ND                       | 0.0095 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Dibromochloromethane                              | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethane                                | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloroethane                                | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethene                                | ND                       | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |

**Qualifiers:**

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HT - Sample received past holding time

\* - Non-accredited parameter

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H - Holding time exceeded

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-EX3-031614(0-2)

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-005

| Analyses                                   | Result              | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|--|---------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW5035/8260B</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| cis-1,2-Dichloroethene                     | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                  | 0.0019 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                  | 0.0019 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Ethylbenzene                               | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 2-Hexanone                                 | ND                  | 0.019  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 4-Methyl-2-pentanone                       | ND                  | 0.019  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methylene chloride                         | ND                  | 0.0095 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methyl tert-butyl ether                    | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Styrene                                    | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Tetrachloroethene                          | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Toluene                                    | 0.023               | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,1-Trichloroethane                      | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2-Trichloroethane                      | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Trichloroethene                            | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Vinyl chloride                             | ND                  | 0.0047 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Xylenes, Total                             | ND                  | 0.014  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| <b>Percent Moisture</b>                    | <b>D2974</b>        |        |           |           | Prep Date: 3/17/2014 | Analyst: VA   |
| Percent Moisture                           | 17.2                | 0.2    | *         | wt%       | 1                    | 3/18/2014     |

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SB01-031514(0-2)

Lab Order: 14030499

Collection Date: 3/15/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-006

| Analyses  | Result                   | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|---|--------------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: MDM  |
| TPH (GRO)   | ND                       | 23     |           | mg/Kg-dry | 1                    | 3/17/2014     |
| TPH (DRO)   | ND                       | 23     |           | mg/Kg-dry | 1                    | 3/17/2014     |
| TPH (ERO)   | ND                       | 23     | *         | mg/Kg-dry | 1                    | 3/17/2014     |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: DM   |
| Acenaphthene                                      | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Acenaphthylene                                    | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Anthracene  | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benz(a)anthracene                                 | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(a)pyrene                                    | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(b)fluoranthene                              | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(g,h,i)perylene                              | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(k)fluoranthene                              | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Chrysene  | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Dibenz(a,h)anthracene                             | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluoranthene                                      | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluorene  | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Naphthalene                                       | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Phenanthrene                                      | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Pyrene  | ND                       | 0.039  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b>        | <b>SW5035/8260B</b>      |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| Acetone   | ND                       | 0.066  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Benzene   | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromodichloromethane                              | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromoform   | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromomethane                                      | ND                       | 0.0087 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 2-Butanone  | ND                       | 0.066  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon disulfide                                  | ND                       | 0.044  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon tetrachloride                              | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chlorobenzene                                     | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroethane                                      | ND                       | 0.0087 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroform  | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloromethane                                     | ND                       | 0.0087 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Dibromochloromethane                              | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethane                                | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloroethane                                | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethene                                | ND                       | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |

**Qualifiers:**

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

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R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SB01-031514(0-2)

Lab Order: 14030499

Collection Date: 3/15/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-006

| Analyses                                   | Result              | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|--|---------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW5035/8260B</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| cis-1,2-Dichloroethene                     | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                  | 0.0018 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                  | 0.0018 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Ethylbenzene                               | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 2-Hexanone                                 | ND                  | 0.018  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 4-Methyl-2-pentanone                       | ND                  | 0.018  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methylene chloride                         | ND                  | 0.0087 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methyl tert-butyl ether                    | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Styrene                                    | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Tetrachloroethene                          | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Toluene                                    | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,1-Trichloroethane                      | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2-Trichloroethane                      | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Trichloroethene                            | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Vinyl chloride                             | ND                  | 0.0044 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Xylenes, Total                             | ND                  | 0.013  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| <b>Percent Moisture</b>                    | <b>D2974</b>        |        |           |           | Prep Date: 3/17/2014 | Analyst: VA   |
| Percent Moisture                           | 16.4                | 0.2    | *         | wt%       | 1                    | 3/18/2014     |

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SB02-031514(0-2)

Lab Order: 14030499

Collection Date: 3/15/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-007

| Analyses  | Result                   | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|---|--------------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: MDM  |
| TPH (GRO)   | ND                       | 22     |           | mg/Kg-dry | 1                    | 3/17/2014     |
| TPH (DRO)   | ND                       | 22     |           | mg/Kg-dry | 1                    | 3/17/2014     |
| TPH (ERO)   | ND                       | 22     | *         | mg/Kg-dry | 1                    | 3/17/2014     |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: DM   |
| Acenaphthene                                      | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Acenaphthylene                                    | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Anthracene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benz(a)anthracene                                 | 0.11                     | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(a)pyrene                                    | 0.076                    | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(b)fluoranthene                              | 0.087                    | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(g,h,i)perylene                              | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(k)fluoranthene                              | 0.071                    | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Chrysene  | 0.11                     | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Dibenz(a,h)anthracene                             | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluoranthene                                      | 0.28                     | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluorene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Naphthalene                                       | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Phenanthrene                                      | 0.15                     | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Pyrene  | 0.22                     | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b>        | <b>SW5035/8260B</b>      |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| Acetone   | ND                       | 0.069  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Benzene   | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromodichloromethane                              | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromoform   | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromomethane                                      | ND                       | 0.0092 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 2-Butanone  | ND                       | 0.069  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon disulfide                                  | ND                       | 0.046  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon tetrachloride                              | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chlorobenzene                                     | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroethane                                      | ND                       | 0.0092 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroform  | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloromethane                                     | ND                       | 0.0092 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Dibromochloromethane                              | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethane                                | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloroethane                                | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethene                                | ND                       | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SB02-031514(0-2)

Lab Order: 14030499

Collection Date: 3/15/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-007

| Analyses                                   | Result              | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|--|---------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW5035/8260B</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| cis-1,2-Dichloroethene                     | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                  | 0.0018 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                  | 0.0018 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Ethylbenzene                               | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 2-Hexanone                                 | ND                  | 0.018  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 4-Methyl-2-pentanone                       | ND                  | 0.018  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methylene chloride                         | ND                  | 0.0092 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methyl tert-butyl ether                    | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Styrene                                    | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Tetrachloroethene                          | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Toluene                                    | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,1-Trichloroethane                      | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2-Trichloroethane                      | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Trichloroethene                            | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Vinyl chloride                             | ND                  | 0.0046 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Xylenes, Total                             | ND                  | 0.014  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| <b>Percent Moisture</b>                    | <b>D2974</b>        |        |           |           | Prep Date: 3/17/2014 | Analyst: VA   |
| Percent Moisture                           | 18.7                | 0.2    | *         | wt%       | 1                    | 3/18/2014     |

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HT - Sample received past holding time  
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S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SB07-031614(0-2)

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-008

| Analyses  | Result                   | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|---|--------------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: MDM  |
| TPH (GRO)   | ND                       | 23     |           | mg/Kg-dry | 1                    | 3/17/2014     |
| TPH (DRO)   | ND                       | 23     |           | mg/Kg-dry | 1                    | 3/17/2014     |
| TPH (ERO)   | ND                       | 23     | *         | mg/Kg-dry | 1                    | 3/17/2014     |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: DM   |
| Acenaphthene                                      | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Acenaphthylene                                    | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Anthracene  | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benz(a)anthracene                                 | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(a)pyrene                                    | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(b)fluoranthene                              | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(g,h,i)perylene                              | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(k)fluoranthene                              | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Chrysene  | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Dibenz(a,h)anthracene                             | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluoranthene                                      | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluorene  | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Naphthalene                                       | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Phenanthrene                                      | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Pyrene  | ND                       | 0.041  |           | mg/Kg-dry | 1                    | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b>        | <b>SW5035/8260B</b>      |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| Acetone   | ND                       | 0.093  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Benzene   | 5.6                      | 0.32   |           | mg/Kg-dry | 50                   | 3/18/2014     |
| Bromodichloromethane                              | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromoform   | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromomethane                                      | ND                       | 0.012  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 2-Butanone  | ND                       | 0.093  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon disulfide                                  | ND                       | 0.062  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon tetrachloride                              | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chlorobenzene                                     | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroethane                                      | ND                       | 0.012  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroform  | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloromethane                                     | ND                       | 0.012  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Dibromochloromethane                              | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethane                                | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloroethane                                | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethene                                | ND                       | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |

**Qualifiers:**

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

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R - RPD outside accepted recovery limits

E - Value above quantitation range

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SB07-031614(0-2)

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-008

| Analyses                                   | Result              | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|--|---------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW5035/8260B</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| cis-1,2-Dichloroethene                     | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                  | 0.0025 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                  | 0.0025 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Ethylbenzene                               | 14                  | 6.5    |           | mg/Kg-dry | 1000                 | 3/18/2014     |
| 2-Hexanone                                 | ND                  | 0.025  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 4-Methyl-2-pentanone                       | ND                  | 0.025  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methylene chloride                         | ND                  | 0.012  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methyl tert-butyl ether                    | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Styrene                                    | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Tetrachloroethene                          | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Toluene                                    | 56                  | 6.5    |           | mg/Kg-dry | 1000                 | 3/18/2014     |
| 1,1,1-Trichloroethane                      | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2-Trichloroethane                      | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Trichloroethene                            | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Vinyl chloride                             | ND                  | 0.0062 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Xylenes, Total                             | 76                  | 19     |           | mg/Kg-dry | 1000                 | 3/18/2014     |
| <b>Percent Moisture</b>                    | <b>D2974</b>        |        |           |           | Prep Date: 3/17/2014 | Analyst: VA   |
| Percent Moisture                           | 19.3                | 0.2    | *         | wt%       | 1                    | 3/18/2014     |

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SB07-031614(2.0-2.3)

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-009

| Analyses  | Result                   | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|---|--------------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: MDM  |
| TPH (GRO)   | ND                       | 22     |           | mg/Kg-dry | 1                    | 3/18/2014     |
| TPH (DRO)   | ND                       | 22     |           | mg/Kg-dry | 1                    | 3/18/2014     |
| TPH (ERO)   | ND                       | 22     | *         | mg/Kg-dry | 1                    | 3/18/2014     |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: DM   |
| Acenaphthene                                      | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Acenaphthylene                                    | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Anthracene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benz(a)anthracene                                 | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(a)pyrene                                    | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(b)fluoranthene                              | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(g,h,i)perylene                              | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Benzo(k)fluoranthene                              | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Chrysene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Dibenz(a,h)anthracene                             | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluoranthene                                      | 0.065                    | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Fluorene  | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Naphthalene                                       | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Phenanthrene                                      | ND                       | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| Pyrene  | 0.053                    | 0.04   |           | mg/Kg-dry | 1                    | 3/18/2014     |
| <b>Volatile Organic Compounds by GC/MS</b>        | <b>SW5035/8260B</b>      |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| Acetone   | 0.16                     | 0.075  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Benzene   | 1.1                      | 0.33   |           | mg/Kg-dry | 50                   | 3/18/2014     |
| Bromodichloromethane                              | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromoform   | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Bromomethane                                      | ND                       | 0.0099 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 2-Butanone  | ND                       | 0.075  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon disulfide                                  | ND                       | 0.049  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Carbon tetrachloride                              | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chlorobenzene                                     | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroethane                                      | ND                       | 0.0099 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloroform  | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Chloromethane                                     | ND                       | 0.0099 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Dibromochloromethane                              | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethane                                | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloroethane                                | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1-Dichloroethene                                | ND                       | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SB07-031614(2.0-2.3)

Lab Order: 14030499

Collection Date: 3/16/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Soil

Lab ID: 14030499-009

| Analyses                                   | Result              | RL     | Qualifier | Units     | DF                   | Date Analyzed |
|--|---------------------|--------|-----------|-----------|----------------------|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW5035/8260B</b> |        |           |           | Prep Date: 3/17/2014 | Analyst: PS   |
| cis-1,2-Dichloroethene                     | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                  | 0.0019 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                  | 0.0019 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Ethylbenzene                               | 2.8                 | 0.33   |           | mg/Kg-dry | 50                   | 3/18/2014     |
| 2-Hexanone                                 | ND                  | 0.019  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 4-Methyl-2-pentanone                       | ND                  | 0.019  |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methylene chloride                         | ND                  | 0.0099 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Methyl tert-butyl ether                    | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Styrene                                    | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Tetrachloroethene                          | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Toluene                                    | 11                  | 0.33   |           | mg/Kg-dry | 50                   | 3/18/2014     |
| 1,1,1-Trichloroethane                      | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| 1,1,2-Trichloroethane                      | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Trichloroethene                            | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Vinyl chloride                             | ND                  | 0.0049 |           | mg/Kg-dry | 1                    | 3/17/2014     |
| Xylenes, Total                             | 15                  | 1      |           | mg/Kg-dry | 50                   | 3/18/2014     |
| <b>Percent Moisture</b>                    | <b>D2974</b>        |        |           |           | Prep Date: 3/17/2014 | Analyst: VA   |
| Percent Moisture                           | 17.1                | 0.2    | *         | wt%       | 1                    | 3/18/2014     |

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 18, 2014

Date Printed: March 18, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: TB01-031514

Lab Order: 14030499

Collection Date: 3/15/2014

Project: 5-031714-000630-0001, Buckeye-Kankakee Spill

Matrix: Water

Lab ID: 14030499-010

| Analyses                                   | Result                   | RL    | Qualifier | Units      | DF | Date Analyzed |
|--|--------------------------|-------|-----------|------------|----|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW8260B (SW5030B)</b> |       |           | Prep Date: |    | Analyst: PS   |
| Acetone                                    | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014     |
| Benzene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Bromodichloromethane                       | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Bromoform                                  | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Bromomethane                               | ND                       | 0.01  |           | mg/L       | 1  | 3/17/2014     |
| 2-Butanone                                 | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014     |
| Carbon disulfide                           | ND                       | 0.01  |           | mg/L       | 1  | 3/17/2014     |
| Carbon tetrachloride                       | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Chlorobenzene                              | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Chloroethane                               | ND                       | 0.01  |           | mg/L       | 1  | 3/17/2014     |
| Chloroform                                 | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Chloromethane                              | ND                       | 0.01  |           | mg/L       | 1  | 3/17/2014     |
| Dibromochloromethane                       | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| 1,1-Dichloroethane                         | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| 1,2-Dichloroethane                         | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| 1,1-Dichloroethene                         | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| cis-1,2-Dichloroethene                     | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| trans-1,2-Dichloroethene                   | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| 1,2-Dichloropropane                        | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| cis-1,3-Dichloropropene                    | ND                       | 0.001 |           | mg/L       | 1  | 3/17/2014     |
| trans-1,3-Dichloropropene                  | ND                       | 0.001 |           | mg/L       | 1  | 3/17/2014     |
| Ethylbenzene                               | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| 2-Hexanone                                 | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014     |
| 4-Methyl-2-pentanone                       | ND                       | 0.02  |           | mg/L       | 1  | 3/17/2014     |
| Methylene chloride                         | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Methyl tert-butyl ether                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Styrene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Tetrachloroethene                          | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Toluene                                    | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| 1,1,1-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| 1,1,2-Trichloroethane                      | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Trichloroethene                            | ND                       | 0.005 |           | mg/L       | 1  | 3/17/2014     |
| Vinyl chloride                             | ND                       | 0.002 |           | mg/L       | 1  | 3/17/2014     |
| Xylenes, Total                             | ND                       | 0.015 |           | mg/L       | 1  | 3/17/2014     |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

## USEPA

DateShipped:

CarrierName:

AirbillNo:

## CHAIN OF CUSTODY RECORD

## Buckeye-Kankakee Spill

Contact Name: Lisa Gracyk

Contact Phone: 312-424-3339

No: 5-031714-000630-0001

Cooler #: 001

Lab: STAT Analysis Corporation

Lab Phone: 312-733-0551

| Lab # | Sample #             | Location     | Analyses         | Matrix                 | Collected | Numb Cont | Container     | Preservative               | MS/MSD |
|-------|----------------------|--------------|------------------|------------------------|-----------|-----------|---------------|----------------------------|--------|
| 001A  | 1873 Springview Ln   | Kankakee, IL | Volatiles (VOAs) | Residential Well Water | 3/16/2014 | 3         | 40 ml VOA     | HCL/Wet ice                |        |
| 001B  | 1873 Springview Ln   | Kankakee, IL | PAHs             | Residential Well Water | 3/16/2014 | 1         | 1 liter amber | Wet ice                    |        |
| 002A  | 1882 Springview Ln   | Kankakee, IL | Volatiles (VOAs) | Residential Well Water | 3/16/2014 | 3         | 40 ml VOA     | HCL/Wet ice                |        |
| 002B  | 1882 Springview Ln   | Kankakee, IL | PAHs             | Residential Well Water | 3/16/2014 | 1         | 1 liter amber | Wet ice                    |        |
| 003A  | 1908 Springview Ln   | Kankakee, IL | Volatiles (VOAs) | Residential Well Water | 3/16/2014 | 3         | 40 ml VOA     | HCL/Wet ice                |        |
| 003B  | 1908 Springview Ln   | Kankakee, IL | PAHs             | Residential Well Water | 3/16/2014 | 1         | 1 liter amber | Wet ice                    |        |
| 004A  | 2000B Springview Dr. | Kankakee, IL | Volatiles (VOAs) | Residential Well Water | 3/16/2014 | 3         | 40 ml VOA     | HCL/Wet ice                |        |
| 004B  | 2000B Springview Dr. | Kankakee, IL | PAHs             | Residential Well Water | 3/16/2014 | 1         | 1 liter amber | Wet ice                    |        |
| 005A  | BKG-EX3-031614(0-2)  | Kankakee, IL | Volatiles (VOAs) | Soil                   | 3/16/2014 | 4         | 40 ml vial    | Methanol/Bisulfate/Wet Ice |        |
| 005B  | BKG-EX3-031614(0-2)  | Kankakee, IL | PAHs             | Soil                   | 3/16/2014 | 1         | 4 oz Jar      | Wet ice                    |        |

Special Instructions: 24-hour TAT

[illegible]

## USEPA

Date Shipped:

Carrier Name:

Airbill No:

## CHAIN OF CUSTODY RECORD

Buckeye-Kankakee Spill

Contact Name: Lisa Gracyk

Contact Phone: 312-424-3339

No: 5-031714-000630-0001

Cooler #: 001

Lab: STAT Analysis Corporation

Lab Phone: 312-733-0551

| Lab # | Sample #                 | Location     | Analyses         | Matrix | Collected | Numb Cont | Container  | Preservative               | MS/MSD |
|-------|--------------------------|--------------|------------------|--------|-----------|-----------|------------|----------------------------|--------|
| 006A  | BKG-SB01-031514(0-2)     | Kankakee, IL | Volatiles (VOAs) | Soil   | 3/15/2014 | 4         | 40 ml vial | Methanol/Bisulfate/Wet Ice |        |
| 006B  | BKG-SB01-031514(0-2)     | Kankakee, IL | PAHs             | Soil   | 3/15/2014 | 1         | 4 oz Jar   | Wet Ice                    |        |
| 007A  | BKG-SB02-031514(0-2)     | Kankakee, IL | Volatiles (VOAs) | Soil   | 3/15/2014 | 4         | 40 ml vial | Methanol/Bisulfate/Wet Ice |        |
| 007B  | BKG-SB02-031514(0-2)     | Kankakee, IL | PAHs             | Soil   | 3/15/2014 | 1         | 4 oz Jar   | Wet Ice                    |        |
| 008A  | BKG-SB07-031614(0-2)     | Kankakee, IL | Volatiles (VOAs) | Soil   | 3/16/2014 | 4         | 40 ml vial | Methanol/Bisulfate/Wet Ice |        |
| 008B  | BKG-SB07-031614(0-2)     | Kankakee, IL | PAHs             | Soil   | 3/16/2014 | 1         | 4 oz Jar   | Wet Ice                    |        |
| 009A  | BKG-SB07-031614(2.0-2.3) | Kankakee, IL | Volatiles (VOAs) | Soil   | 3/16/2014 | 4         | 40 ml vial | Methanol/Bisulfate/Wet Ice |        |
| 009B  | BKG-SB07-031614(0-2)     | Kankakee, IL | PAHs             | Soil   | 3/16/2014 | 1         | 4 oz Jar   | Wet Ice                    |        |
| 010A  | BKG-SB07-031614(2.0-2.3) | Kankakee, IL | Volatiles (VOAs) | Water  | 3/15/2014 | 1         | 40 ml      | Wet Ice                    |        |
|       | BKG-EX3-031614(0-2)      |              | TPH DRG + GRC    | Soil   | 3/16/14   | 1         | 4 oz jar   | FA                         |        |
|       | BKG-SB01-031514(0-2)     |              |                  |        | 3/15/14   | 1         |            |                            |        |
|       | BKG-SB02-031514(0-2)     |              |                  |        | 3/15/14   | 1         |            |                            |        |
|       | BKG-SB07-031614(0-2)     |              |                  |        | 3/16/14   | 1         |            |                            |        |
|       | BKG-SB07-031614(2.0-2.3) |              |                  |        | 3/16/14   | 1         |            |                            |        |

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY # 14030499

Special Instructions: 24-hour TAT

| Items/Reason | Relinquished by | Date    | Received by | Date    | Time | Relinquished By | Date | Received by | Date | Time |
|--------------|-----------------|---------|-------------|---------|------|-----------------|------|-------------|------|------|
| 1 cooler     | Brennan         | 3/17/14 | WUN         | 3/17/14 | 1530 |                 |      |             |      |      |
| 1 cooler     | Johnson         | 3/17/14 | WUN         | 3/17/14 | 1615 |                 |      |             |      |      |


## Sample Receipt Checklist

Client Name WESTON CHICAGO

Date and Time Received: 3/17/2014 4:15:00 PM

Work Order Number 14030499

Received by: DO

Checklist completed by: 

3/17/14

Reviewed by: 

03/18/14

Signature

Date

Initials

Date

Matrix:

Carrier name STAT Analysis

|   |   |   |   |
|---|---|---|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Chain of custody agrees with sample labels/containers?  | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             |   |
| Container or Temp Blank temperature in compliance?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>             | Temperature 2.7 °C                              |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/>                     |
| Water - Samples pH checked?                             | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | Checked by: _____                               |
| Water - Samples properly preserved?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>             | pH Adjusted? _____                              |

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Client / Person  
contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill  
**Test No:** SW5035/8260B **Matrix:** S

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID     | BR4FBZ | BZMED8 | DBFM | DCA12D4 |  |  |  |  |
|---------------|--------|--------|------|---------|--|--|--|--|
| VBLK031714-2  | 92.3   | 98.0   | 91.3 | 100     |  |  |  |  |
| VLCS031714-2  | 97.7   | 98.4   | 105  | 104     |  |  |  |  |
| VLCSD031714-2 | 96.6   | 99.8   | 102  | 103     |  |  |  |  |
| 14030499-005A | 95.3   | 97.1   | 112  | 114     |  |  |  |  |
| 14030499-006A | 94.7   | 99.8   | 103  | 117     |  |  |  |  |
| 14030499-007A | 94.6   | 99.4   | 104  | 114     |  |  |  |  |
| 14030499-008A | 87.1   | 112    | 95.8 | 107     |  |  |  |  |
| 14030499-009A | 96.1   | 105    | 77.3 | 81.2    |  |  |  |  |

| Acronym | Surrogate               | QC Limits |
|---------|-------------------------|-----------|
| BR4FBZ  | = 4-Bromofluorobenzene  | 44-114    |
| BZMED8  | = Toluene-d8            | 62-122    |
| DBFM    | = Dibromofluoromethane  | 74-150    |
| DCA12D4 | = 1,2-Dichloroethane-d4 | 78-160    |

\* Surrogate recovery outside acceptance limit

## Analytical Run Summary

Run ID: VOA-2\_140317A (R97236)

Analyst: PS

Printed: 18-Mar-14

| SeqNo   | Sample ID     | Type | Test Code   | Batch  | DF   | File ID              | Date/Time Analyzed |
|---------|---------------|------|-------------|--------|------|----------------------|--------------------|
| 2627511 | BFB031714-2   | TUNE | BFB         | R97236 | 1    | H:\VOC-2\031714\0317 | 03/17/2014 17:59   |
| 2627513 | VSTD100       | CCV  | VOC_ENCORE+ | R97236 | 1    | H:\VOC-2\031714\0317 | 03/17/2014 18:22   |
| 2627514 | VBLK031714-2  | MBLK | VOC_ENCORE+ | R97236 | 1    | H:\VOC-2\031714\0317 | 03/17/2014 19:37   |
| 2627515 | VLCS031714-2  | LCS  | VOC_ENCORE+ | R97236 | 1    | H:\VOC-2\031714\0317 | 03/17/2014 20:12   |
| 2627516 | VLCS031714-2  | LCSD | VOC_ENCORE+ | R97236 | 1    | H:\VOC-2\031714\0317 | 03/17/2014 20:48   |
| 2627517 | 14030499-005A | SAMP | VOC_5035    | 75154  | 1    | H:\VOC-2\031714\0317 | 03/17/2014 21:23   |
| 2627518 | 14030499-006A | SAMP | VOC_5035    | 75154  | 1    | H:\VOC-2\031714\0317 | 03/17/2014 21:58   |
| 2627519 | 14030499-007A | SAMP | VOC_5035    | 75154  | 1    | H:\VOC-2\031714\0317 | 03/17/2014 22:33   |
| 2627520 | 14030499-008A | SAMP | VOC_5035    | 75154  | 1    | H:\VOC-2\031714\0317 | 03/17/2014 23:14   |
| 2627522 | 14030499-009A | SAMP | VOC_5035    | 75154  | 1    | H:\VOC-2\031714\0317 | 03/17/2014 23:49   |
| 2627523 | 14030360-022A | SAMP | VOC_5035    | 75074  | 500  | H:\VOC-2\031714\0317 | 03/18/2014 0:24    |
| 2627524 | 14030360-023A | SAMP | VOC_5035    | 75074  | 5000 | H:\VOC-2\031714\0317 | 03/18/2014 0:59    |
| 2627525 | 14030360-024A | SAMP | VOC_5035    | 75074  | 500  | H:\VOC-2\031714\0317 | 03/18/2014 1:34    |
| 2627526 | 14030360-026A | SAMP | VOC_5035    | 75074  | 1000 | H:\VOC-2\031714\0317 | 03/18/2014 2:09    |
| 2627527 | 14030360-027A | SAMP | VOC_5035    | 75074  | 5000 | H:\VOC-2\031714\0317 | 03/18/2014 2:44    |
| 2627528 | 14030360-027A | SAMP | VOC_5035    | 75074  | 50   | H:\VOC-2\031714\0317 | 03/18/2014 3:19    |
| 2627529 | 14030360-028A | SAMP | VOC_5035    | 75074  | 50   | H:\VOC-2\031714\0317 | 03/18/2014 4:28    |
| 2627530 | 14030360-029A | SAMP | VOC_5035    | 75074  | 50   | H:\VOC-2\031714\0317 | 03/18/2014 5:38    |

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97236

| Sample ID: <b>VBLK031714-2</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140317A</b> |          |           |             |      |          |      |
|--------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R97236</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627514</b>        |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane          | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1,2,2-Tetrachloroethane      | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1,2-Trichloroethane          | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1-Dichloroethane             | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1-Dichloroethene             | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,2-Dichloroethane             | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,2-Dichloropropane            | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 2-Butanone                     | ND                      | 0.075                      |                     |                                 |                              |          |           |             |      |          |      |
| 2-Hexanone                     | ND                      | 0.020                      |                     |                                 |                              |          |           |             |      |          |      |
| 4-Methyl-2-pentanone           | ND                      | 0.020                      |                     |                                 |                              |          |           |             |      |          |      |
| Acetone                        | ND                      | 0.075                      |                     |                                 |                              |          |           |             |      |          |      |
| Benzene                        | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromodichloromethane           | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromoform                      | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromomethane                   | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| Carbon disulfide               | ND                      | 0.050                      |                     |                                 |                              |          |           |             |      |          |      |
| Carbon tetrachloride           | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chlorobenzene                  | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chloroethane                   | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| Chloroform                     | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chloromethane                  | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| cis-1,2-Dichloroethene         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| cis-1,3-Dichloropropene        | ND                      | 0.0020                     |                     |                                 |                              |          |           |             |      |          |      |
| Dibromochloromethane           | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Ethylbenzene                   | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Methyl tert-butyl ether        | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Methylene chloride             | 0.00095                 | 0.010                      |                     |                                 |                              |          |           |             |      |          | J    |
| Styrene                        | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Tetrachloroethene              | 0.00253                 | 0.0050                     |                     |                                 |                              |          |           |             |      |          | J    |
| Toluene                        | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| trans-1,2-Dichloroethene       | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97236

|                                |                         |                            |                     |                                 |                              |          |           |             |      |          |      |
|--------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VBLK031714-2</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140317A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R97236</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627514</b>        |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

trans-1,3-Dichloropropene  
Trichloroethene  
Vinyl chloride  
Xylenes, Total

ND  
ND  
ND  
ND

0.0020  
0.0050  
0.0050  
0.015

|                                |                         |                            |                                 |                       |                              |          |           |             |      |          |      |
|--------------------------------|-------------------------|----------------------------|---------------------------------|-----------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VLCS031714-2</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b>             | Prep Date:            | Run ID: <b>VOA-2_140317A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R97236</b> | TestNo: <b>SW5035/8260</b> | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627515</b> |                              |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                        | SPK value                       | SPK Ref Val           | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethane  
1,2-Dichloropropane  
2-Butanone  
2-Hexanone  
4-Methyl-2-pentanone  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene

0.05473  
0.05743  
0.05694  
0.05398  
0.04568  
0.0523  
0.05357  
0.09596  
0.1023  
0.1023  
0.1249  
0.0538  
0.05396  
0.05753  
0.03278  
0.1259  
0.05307  
0.05688  
0.05825  
0.05451  
0.04277  
0.05476

0.0050  
0.0050  
0.0050  
0.0050  
0.0050  
0.0050  
0.0050  
0.075  
0.020  
0.020  
0.075  
0.0050  
0.0050  
0.0050  
0.010  
0.050  
0.0050  
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85.5  
110

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S

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97236

| Sample ID: <b>VLCS031714-2</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENCORG</b> | Units: <b>mg/Kg</b> | Prep Date:                      |      |          |           | Run ID: <b>VOA-2_140317A</b> |      |          |      |
|--------------------------------|-------------------------|-----------------------------|---------------------|---------------------------------|------|----------|-----------|------------------------------|------|----------|------|
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R97236</b> | TestNo: <b>SW5035/8260</b>  |                     | Analysis Date: <b>3/17/2014</b> |      |          |           | SeqNo: <b>2627515</b>        |      |          |      |
| Analyte                        | Result                  | PQL                         | SPK value           | SPK Ref Val                     | %REC | LowLimit | HighLimit | RPD Ref Val                  | %RPD | RPDLimit | Qual |
| cis-1,3-Dichloropropene        | 0.05256                 | 0.0020                      | 0.05                | 0                               | 105  | 70       | 130       | 0                            | 0    |          |      |
| Dibromochloromethane           | 0.05704                 | 0.0050                      | 0.05                | 0                               | 114  | 70       | 130       | 0                            | 0    |          |      |
| Ethylbenzene                   | 0.05918                 | 0.0050                      | 0.05                | 0                               | 118  | 70       | 130       | 0                            | 0    |          |      |
| Methyl tert-butyl ether        | 0.0528                  | 0.0050                      | 0.05                | 0                               | 106  | 70       | 130       | 0                            | 0    |          |      |
| Methylene chloride             | 0.0477                  | 0.010                       | 0.05                | 0.00095                         | 93.5 | 70       | 130       | 0                            | 0    |          |      |
| Styrene                        | 0.05957                 | 0.0050                      | 0.05                | 0                               | 119  | 70       | 130       | 0                            | 0    |          |      |
| Tetrachloroethene              | 0.06119                 | 0.0050                      | 0.05                | 0.00253                         | 117  | 70       | 130       | 0                            | 0    |          |      |
| Toluene                        | 0.05473                 | 0.0050                      | 0.05                | 0                               | 109  | 70       | 130       | 0                            | 0    |          |      |
| trans-1,2-Dichloroethene       | 0.05304                 | 0.0050                      | 0.05                | 0                               | 106  | 70       | 130       | 0                            | 0    |          |      |
| trans-1,3-Dichloropropene      | 0.06034                 | 0.0020                      | 0.05                | 0                               | 121  | 70       | 130       | 0                            | 0    |          |      |
| Trichloroethene                | 0.0526                  | 0.0050                      | 0.05                | 0                               | 105  | 70       | 130       | 0                            | 0    |          |      |
| Vinyl chloride                 | 0.05018                 | 0.0050                      | 0.05                | 0                               | 100  | 70       | 130       | 0                            | 0    |          |      |
| Xylenes, Total                 | 0.1703                  | 0.015                       | 0.15                | 0                               | 114  | 70       | 130       | 0                            | 0    |          |      |

| Sample ID: <b>VLCS031714-2</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140317A</b> |          |           |             |        |          |      |
|--------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|--------|----------|------|
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R97236</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627516</b>        |          |           |             |        |          |      |
| Analyte                        | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD   | RPDLimit | Qual |
| 1,1,1-Trichloroethane          | 0.05126                 | 0.0050                     | 0.05                | 0                               | 103                          | 70       | 130       | 0.05473     | 6.55   | 20       |      |
| 1,1,2,2-Tetrachloroethane      | 0.05587                 | 0.0050                     | 0.05                | 0                               | 112                          | 70       | 130       | 0.05743     | 2.75   | 20       |      |
| 1,1,2-Trichloroethane          | 0.05519                 | 0.0050                     | 0.05                | 0                               | 110                          | 70       | 130       | 0.05694     | 3.12   | 20       |      |
| 1,1-Dichloroethane             | 0.05276                 | 0.0050                     | 0.05                | 0                               | 106                          | 70       | 130       | 0.05398     | 2.29   | 20       |      |
| 1,1-Dichloroethene             | 0.04489                 | 0.0050                     | 0.05                | 0                               | 89.8                         | 70       | 130       | 0.04568     | 1.74   | 20       |      |
| 1,2-Dichloroethane             | 0.0501                  | 0.0050                     | 0.05                | 0                               | 100                          | 70       | 130       | 0.0523      | 4.30   | 20       |      |
| 1,2-Dichloropropane            | 0.05354                 | 0.0050                     | 0.05                | 0                               | 107                          | 70       | 130       | 0.05357     | 0.0560 | 20       |      |
| 2-Butanone                     | 0.1021                  | 0.075                      | 0.1                 | 0                               | 102                          | 70       | 130       | 0.09596     | 6.21   | 20       |      |
| 2-Hexanone                     | 0.1029                  | 0.020                      | 0.1                 | 0                               | 103                          | 70       | 130       | 0.1023      | 0.585  | 20       |      |
| 4-Methyl-2-pentanone           | 0.1077                  | 0.020                      | 0.1                 | 0                               | 108                          | 70       | 130       | 0.1023      | 5.17   | 20       |      |
| Acetone                        | 0.1226                  | 0.075                      | 0.1                 | 0                               | 123                          | 50       | 150       | 0.1249      | 1.83   | 20       |      |
| Benzene                        | 0.05282                 | 0.0050                     | 0.05                | 0                               | 106                          | 70       | 130       | 0.0538      | 1.84   | 20       |      |
| Bromodichloromethane           | 0.05367                 | 0.0050                     | 0.05                | 0                               | 107                          | 70       | 130       | 0.05396     | 0.539  | 20       |      |

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H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97236

| Sample ID: <b>VLCS031714-2</b> |         | SampType: <b>LCSD</b>   |           | TestCode: <b>VOC_ENC0R</b> |      | Units: <b>mg/Kg</b>             |           | Prep Date:            |       | Run ID: <b>VOA-2_140317A</b> |      |
|--------------------------------|---------|-------------------------|-----------|----------------------------|------|---------------------------------|-----------|-----------------------|-------|------------------------------|------|
| Client ID: <b>ZZZZZ</b>        |         | Batch ID: <b>R97236</b> |           | TestNo: <b>SW5035/8260</b> |      | Analysis Date: <b>3/17/2014</b> |           | SeqNo: <b>2627516</b> |       |                              |      |
| Analyte                        | Result  | PQL                     | SPK value | SPK Ref Val                | %REC | LowLimit                        | HighLimit | RPD Ref Val           | %RPD  | RPDLimit                     | Qual |
| Bromoform                      | 0.05746 | 0.0050                  | 0.05      | 0                          | 115  | 70                              | 130       | 0.05753               | 0.122 | 20                           | S    |
| Bromomethane                   | 0.0321  | 0.010                   | 0.05      | 0                          | 64.2 | 70                              | 130       | 0.03278               | 2.10  | 20                           |      |
| Carbon disulfide               | 0.1223  | 0.050                   | 0.1       | 0                          | 122  | 70                              | 130       | 0.1259                | 2.92  | 20                           |      |
| Carbon tetrachloride           | 0.0537  | 0.0050                  | 0.05      | 0                          | 107  | 70                              | 130       | 0.05307               | 1.18  | 20                           |      |
| Chlorobenzene                  | 0.05359 | 0.0050                  | 0.05      | 0                          | 107  | 70                              | 130       | 0.05688               | 5.96  | 20                           |      |
| Chloroethane                   | 0.05489 | 0.010                   | 0.05      | 0                          | 110  | 70                              | 130       | 0.05825               | 5.94  | 20                           |      |
| Chloroform                     | 0.05341 | 0.0050                  | 0.05      | 0                          | 107  | 70                              | 130       | 0.05451               | 2.04  | 20                           |      |
| Chloromethane                  | 0.04429 | 0.010                   | 0.05      | 0                          | 88.6 | 70                              | 130       | 0.04277               | 3.49  | 20                           |      |
| cis-1,2-Dichloroethene         | 0.0537  | 0.0050                  | 0.05      | 0                          | 107  | 70                              | 130       | 0.05476               | 1.95  | 20                           |      |
| cis-1,3-Dichloropropene        | 0.05139 | 0.0020                  | 0.05      | 0                          | 103  | 70                              | 130       | 0.05256               | 2.25  | 20                           |      |
| Dibromochloromethane           | 0.05672 | 0.0050                  | 0.05      | 0                          | 113  | 70                              | 130       | 0.05704               | 0.563 | 20                           |      |
| Ethylbenzene                   | 0.05706 | 0.0050                  | 0.05      | 0                          | 114  | 70                              | 130       | 0.05918               | 3.65  | 20                           |      |
| Methyl tert-butyl ether        | 0.0531  | 0.0050                  | 0.05      | 0                          | 106  | 70                              | 130       | 0.0528                | 0.567 | 20                           |      |
| Methylene chloride             | 0.0481  | 0.010                   | 0.05      | 0.00095                    | 94.3 | 70                              | 130       | 0.0477                | 0.835 | 20                           |      |
| Styrene                        | 0.05778 | 0.0050                  | 0.05      | 0                          | 116  | 70                              | 130       | 0.05957               | 3.05  | 20                           |      |
| Tetrachloroethene              | 0.058   | 0.0050                  | 0.05      | 0.00253                    | 111  | 70                              | 130       | 0.06119               | 5.35  | 20                           |      |
| Toluene                        | 0.05319 | 0.0050                  | 0.05      | 0                          | 106  | 70                              | 130       | 0.05473               | 2.85  | 20                           |      |
| trans-1,2-Dichloroethene       | 0.05115 | 0.0050                  | 0.05      | 0                          | 102  | 70                              | 130       | 0.05304               | 3.63  | 20                           |      |
| trans-1,3-Dichloropropene      | 0.05799 | 0.0020                  | 0.05      | 0                          | 116  | 70                              | 130       | 0.06034               | 3.97  | 20                           |      |
| Trichloroethene                | 0.05221 | 0.0050                  | 0.05      | 0                          | 104  | 70                              | 130       | 0.0526                | 0.744 | 20                           |      |
| Vinyl chloride                 | 0.04987 | 0.0050                  | 0.05      | 0                          | 99.7 | 70                              | 130       | 0.05018               | 0.620 | 20                           |      |
| Xylenes, Total                 | 0.164   | 0.015                   | 0.15      | 0                          | 109  | 70                              | 130       | 0.1703                | 3.75  | 20                           |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill  
**Test No:** SW5035/8260B **Matrix:** S

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID          | BR4FBZ | BZMED8 | DBFM | DCA12D4 |  |  |  |  |
|--------------------|--------|--------|------|---------|--|--|--|--|
| VBLK031814-2       | 96.1   | 98.7   | 96.4 | 97.9    |  |  |  |  |
| VLCS031814r-2      | 95.6   | 101    | 102  | 98.5    |  |  |  |  |
| VLCSD031814-2      | 91.4   | 95.4   | 101  | 96.7    |  |  |  |  |
| 14030499-009A:50   | 104    | 99.6   | 95.5 | 100     |  |  |  |  |
| 14030499-008A:1000 | 91.8   | 102    | 98.5 | 101     |  |  |  |  |
| 14030499-008A:50   | 97.3   | 105    | 96.3 | 95.3    |  |  |  |  |

| Acronym | Surrogate               | QC Limits |
|---------|-------------------------|-----------|
| BR4FBZ  | = 4-Bromofluorobenzene  | 63-110    |
| BZMED8  | = Toluene-d8            | 85-110    |
| DBFM    | = Dibromofluoromethane  | 83-119    |
| DCA12D4 | = 1,2-Dichloroethane-d4 | 84-129    |

**\* Surrogate recovery outside acceptance limit**



## Analytical Run Summary

Run ID: VOA-2\_140318A (R97249)

Analyst: PS

Printed: 18-Mar-14

| SeqNo   | Sample ID     | Type | Test Code   | Batch  | DF   | File ID              | Date/Time Analyzed |
|---------|---------------|------|-------------|--------|------|----------------------|--------------------|
| 2627856 | BFB031814-2   | TUNE | BFB         | R97249 | 1    | H:\VOC-2\031814\0318 | 03/18/2014 7:39    |
| 2627857 | VSTD100       | CCV  | VOC_ENCORE+ | R97249 | 1    | H:\VOC-2\031814\0318 | 03/18/2014 7:59    |
| 2627858 | VBLK031814-2  | MBLK | VOC_ENCORE+ | R97249 | 1    | H:\VOC-2\031814\0318 | 03/18/2014 8:36    |
| 2627859 | VLCS031814r-2 | LCS  | VOC_ENCORE+ | R97249 | 1    | H:\VOC-2\031814\0318 | 03/18/2014 9:47    |
| 2627860 | VLCS031814-2  | LCSD | VOC_ENCORE+ | R97249 | 1    | H:\VOC-2\031814\0318 | 03/18/2014 10:24   |
| 2627862 | 14030499-009A | SAMP | VOC_5035    | 75166  | 50   | H:\VOC-2\031814\0318 | 03/18/2014 11:09   |
| 2627863 | 14030499-008A | SAMP | VOC_5035    | 75166  | 1000 | H:\VOC-2\031814\0318 | 03/18/2014 11:45   |
| 2627864 | 14030499-008A | SAMP | VOC_5035    | 75166  | 50   | H:\VOC-2\031814\0318 | 03/18/2014 12:20   |
| 2627868 | 14030396-002A | SAMP | BTEX_ENCORE | 73901  | 1    | H:\VOC-2\031814\0318 | 03/18/2014 12:55   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97249**

|                               |                         |                             |                     |                                 |                              |          |           |             |      |          |      |
|-------------------------------|-------------------------|-----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VBK031814-2</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_ENCORG</b> | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140318A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>       | Batch ID: <b>R97249</b> | TestNo: <b>SW5035/8260</b>  |                     | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627858</b>        |          |           |             |      |          |      |
| Analyte                       | Result                  | PQL                         | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                |         |        |  |  |  |  |  |  |  |  |   |
|----------------|---------|--------|--|--|--|--|--|--|--|--|---|
| Benzene        | ND      | 0.0050 |  |  |  |  |  |  |  |  |   |
| Ethylbenzene   | ND      | 0.0050 |  |  |  |  |  |  |  |  |   |
| Toluene        | 0.00059 | 0.0050 |  |  |  |  |  |  |  |  | J |
| Xylenes, Total | ND      | 0.015  |  |  |  |  |  |  |  |  |   |

|                                 |                         |                             |                     |                                 |                              |          |           |             |      |          |      |
|---------------------------------|-------------------------|-----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VLCS031814r-2</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENCORG</b> | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140318A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>         | Batch ID: <b>R97249</b> | TestNo: <b>SW5035/8260</b>  |                     | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627859</b>        |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                         | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                |         |        |      |         |      |    |     |   |   |  |  |
|----------------|---------|--------|------|---------|------|----|-----|---|---|--|--|
| Benzene        | 0.04339 | 0.0050 | 0.05 | 0       | 86.8 | 70 | 130 | 0 | 0 |  |  |
| Ethylbenzene   | 0.0452  | 0.0050 | 0.05 | 0       | 90.4 | 70 | 130 | 0 | 0 |  |  |
| Toluene        | 0.04529 | 0.0050 | 0.05 | 0.00059 | 89.4 | 70 | 130 | 0 | 0 |  |  |
| Xylenes, Total | 0.132   | 0.015  | 0.15 | 0       | 88   | 70 | 130 | 0 | 0 |  |  |

|                                |                         |                             |                     |                                 |                              |          |           |             |      |          |      |
|--------------------------------|-------------------------|-----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VLCS031814-2</b> | SampType: <b>LCSD</b>   | TestCode: <b>VOC_ENCORG</b> | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140318A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>        | Batch ID: <b>R97249</b> | TestNo: <b>SW5035/8260</b>  |                     | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627860</b>        |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                         | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                |         |        |      |         |      |    |     |         |       |    |  |
|----------------|---------|--------|------|---------|------|----|-----|---------|-------|----|--|
| Benzene        | 0.04271 | 0.0050 | 0.05 | 0       | 85.4 | 70 | 130 | 0.04339 | 1.58  | 20 |  |
| Ethylbenzene   | 0.04566 | 0.0050 | 0.05 | 0       | 91.3 | 70 | 130 | 0.0452  | 1.01  | 20 |  |
| Toluene        | 0.04411 | 0.0050 | 0.05 | 0.00059 | 87   | 70 | 130 | 0.04529 | 2.64  | 20 |  |
| Xylenes, Total | 0.1331  | 0.015  | 0.15 | 0       | 88.8 | 70 | 130 | 0.132   | 0.875 | 20 |  |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit<br>J - Analyte detected below quantitation limits<br>* - Non Accredited Parameter | S - Spike Recovery outside accepted recovery limits<br>R - RPD outside accepted recovery limits<br>H/HT - Holding Time Exceeded | B - Analyte detected in the associated Method Blank<br>E - Value above quantitation range |
|--------------------|--|---|---|

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill  
**Test No:** SW8260B **Matrix:** W

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID     | BR4FBZ | BZMED8 | DBFM | DCA12D4 |  |  |  |  |
|---------------|--------|--------|------|---------|--|--|--|--|
| VBLK031714-7  | 96.7   | 100    | 105  | 100     |  |  |  |  |
| VLCS031714-7  | 99.5   | 102    | 108  | 100     |  |  |  |  |
| VLCSD031714-7 | 99.1   | 100    | 104  | 101     |  |  |  |  |
| 14030499-010A | 98.0   | 98.4   | 103  | 99.7    |  |  |  |  |
| 14030499-001A | 97.5   | 99.5   | 105  | 98.2    |  |  |  |  |
| 14030499-002A | 98.3   | 100    | 103  | 100     |  |  |  |  |
| 14030499-003A | 95.2   | 101    | 107  | 108     |  |  |  |  |
| 14030499-004A | 94.1   | 98.8   | 105  | 105     |  |  |  |  |

| Acronym | Surrogate               | QC Limits |
|---------|-------------------------|-----------|
| BR4FBZ  | = 4-Bromofluorobenzene  | 86-115    |
| BZMED8  | = Toluene-d8            | 88-110    |
| DBFM    | = Dibromofluoromethane  | 86-118    |
| DCA12D4 | = 1,2-Dichloroethane-d4 | 80-120    |

\* Surrogate recovery outside acceptance limit

## Analytical Run Summary

Run ID: VOA-7\_140317A (R97230)

Analyst: PS

Printed: 18-Mar-14

| SeqNo   | Sample ID     | Type | Test Code | Batch  | DF | File ID    | Date/Time Analyzed |
|---------|---------------|------|-----------|--------|----|------------|--------------------|
| 2627334 | BFB031714-7   | TUNE | BFB_624   | R97230 | 1  | 03171401.D | 03/17/2014 11:26   |
| 2627335 | VSTD100       | CCV  | VOC_W+    | R97230 | 1  | 03171403.D | 03/17/2014 13:09   |
| 2627336 | VBLK031714-7  | MBLK | VOC_W+    | R97230 | 1  | 03171405.D | 03/17/2014 14:18   |
| 2627337 | VLCS031714-7  | LCS  | VOC_W+    | R97230 | 1  | 03171406.D | 03/17/2014 14:53   |
| 2627338 | VLCS031714-7  | LCSD | VOC_W+    | R97230 | 1  | 03171407.D | 03/17/2014 15:27   |
| 2627344 | 14030499-010A | SAMP | VOC_W     | R97230 | 1  | 03171408.D | 03/17/2014 17:41   |
| 2627345 | 14030499-001A | SAMP | VOC_W     | R97230 | 1  | 03171409.D | 03/17/2014 18:15   |
| 2627346 | 14030499-002A | SAMP | VOC_W     | R97230 | 1  | 03171410.D | 03/17/2014 18:50   |
| 2627347 | 14030499-003A | SAMP | VOC_W     | R97230 | 1  | 03171411.D | 03/17/2014 19:24   |
| 2627348 | 14030499-004A | SAMP | VOC_W     | R97230 | 1  | 03171412.D | 03/17/2014 19:59   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97230

| Sample ID: <b>VBLK031714-7</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_W+</b> | Units: <b>mg/L</b> | Prep Date:                      | Run ID: <b>VOA-7_140317A</b> |          |           |             |      |          |      |
|--------------------------------|-------------------------|-------------------------|--------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZ</b>         | Batch ID: <b>R97230</b> | TestNo: <b>SW8260B</b>  |                    | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627336</b>        |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                     | SPK value          | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane          | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| 1,1,2,2-Tetrachloroethane      | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| 1,1,2-Trichloroethane          | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| 1,1-Dichloroethane             | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| 1,1-Dichloroethene             | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| 1,2-Dichloroethane             | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| 1,2-Dichloropropane            | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| 2-Butanone                     | ND                      | 0.020                   |                    |                                 |                              |          |           |             |      |          |      |
| 2-Hexanone                     | ND                      | 0.020                   |                    |                                 |                              |          |           |             |      |          |      |
| 4-Methyl-2-pentanone           | ND                      | 0.020                   |                    |                                 |                              |          |           |             |      |          |      |
| Acetone                        | ND                      | 0.020                   |                    |                                 |                              |          |           |             |      |          |      |
| Benzene                        | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Bromodichloromethane           | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Bromoform                      | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Bromomethane                   | ND                      | 0.010                   |                    |                                 |                              |          |           |             |      |          |      |
| Carbon disulfide               | ND                      | 0.010                   |                    |                                 |                              |          |           |             |      |          |      |
| Carbon tetrachloride           | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Chlorobenzene                  | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Chloroethane                   | ND                      | 0.010                   |                    |                                 |                              |          |           |             |      |          |      |
| Chloroform                     | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Chloromethane                  | ND                      | 0.010                   |                    |                                 |                              |          |           |             |      |          |      |
| cis-1,2-Dichloroethene         | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| cis-1,3-Dichloropropene        | ND                      | 0.0010                  |                    |                                 |                              |          |           |             |      |          |      |
| Dibromochloromethane           | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Ethylbenzene                   | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Methyl tert-butyl ether        | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Methylene chloride             | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Styrene                        | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Tetrachloroethene              | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| Toluene                        | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |
| trans-1,2-Dichloroethene       | ND                      | 0.0050                  |                    |                                 |                              |          |           |             |      |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97230

|                                |                         |                         |                    |                                 |                              |          |           |             |      |          |      |
|--------------------------------|-------------------------|-------------------------|--------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VBLK031714-7</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_W+</b> | Units: <b>mg/L</b> | Prep Date:                      | Run ID: <b>VOA-7_140317A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>         | Batch ID: <b>R97230</b> | TestNo: <b>SW8260B</b>  |                    | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627336</b>        |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                     | SPK value          | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

trans-1,3-Dichloropropene  
Trichloroethene  
Vinyl chloride  
Xylenes, Total

ND  
ND  
ND  
ND

0.0010  
0.0050  
0.0020  
0.015

|                                |                         |                         |                    |                                 |                              |          |           |             |      |          |      |
|--------------------------------|-------------------------|-------------------------|--------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VLCS031714-7</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_W+</b> | Units: <b>mg/L</b> | Prep Date:                      | Run ID: <b>VOA-7_140317A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>         | Batch ID: <b>R97230</b> | TestNo: <b>SW8260B</b>  |                    | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627337</b>        |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                     | SPK value          | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethane  
1,2-Dichloropropane  
2-Butanone  
2-Hexanone  
4-Methyl-2-pentanone  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene

0.0203  
0.01975  
0.01978  
0.02217  
0.01855  
0.02004  
0.02095  
0.04505  
0.0372  
0.04163  
0.04808  
0.02137  
0.02112  
0.02206  
0.02152  
0.05092  
0.01987  
0.02053  
0.02259  
0.02217  
0.01845  
0.0222

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**Qualifiers:** ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range  
\* - Non Accredited Parameter H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97230**

|                                |                         |                         |                    |                                 |                              |          |           |             |      |          |      |
|--------------------------------|-------------------------|-------------------------|--------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VLCS031714-7</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_W+</b> | Units: <b>mg/L</b> | Prep Date:                      | Run ID: <b>VOA-7_140317A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>         | Batch ID: <b>R97230</b> | TestNo: <b>SW8260B</b>  |                    | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627337</b>        |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                     | SPK value          | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |         |        |      |   |     |    |     |   |   |  |  |
|---------------------------|---------|--------|------|---|-----|----|-----|---|---|--|--|
| cis-1,3-Dichloropropene   | 0.0202  | 0.0010 | 0.02 | 0 | 101 | 70 | 130 | 0 | 0 |  |  |
| Dibromochloromethane      | 0.02129 | 0.0050 | 0.02 | 0 | 106 | 70 | 130 | 0 | 0 |  |  |
| Ethylbenzene              | 0.02152 | 0.0050 | 0.02 | 0 | 108 | 70 | 130 | 0 | 0 |  |  |
| Methyl tert-butyl ether   | 0.02118 | 0.0050 | 0.02 | 0 | 106 | 50 | 150 | 0 | 0 |  |  |
| Methylene chloride        | 0.02151 | 0.0050 | 0.02 | 0 | 108 | 70 | 130 | 0 | 0 |  |  |
| Styrene                   | 0.02206 | 0.0050 | 0.02 | 0 | 110 | 70 | 130 | 0 | 0 |  |  |
| Tetrachloroethene         | 0.02114 | 0.0050 | 0.02 | 0 | 106 | 70 | 130 | 0 | 0 |  |  |
| Toluene                   | 0.02107 | 0.0050 | 0.02 | 0 | 105 | 70 | 130 | 0 | 0 |  |  |
| trans-1,2-Dichloroethene  | 0.02135 | 0.0050 | 0.02 | 0 | 107 | 70 | 130 | 0 | 0 |  |  |
| trans-1,3-Dichloropropene | 0.02008 | 0.0010 | 0.02 | 0 | 100 | 70 | 130 | 0 | 0 |  |  |
| Trichloroethene           | 0.02014 | 0.0050 | 0.02 | 0 | 101 | 70 | 130 | 0 | 0 |  |  |
| Vinyl chloride            | 0.02079 | 0.0020 | 0.02 | 0 | 104 | 70 | 130 | 0 | 0 |  |  |
| Xylenes, Total            | 0.06189 | 0.015  | 0.06 | 0 | 103 | 70 | 130 | 0 | 0 |  |  |

|                                |                         |                         |                    |                                 |                              |          |           |             |      |          |      |
|--------------------------------|-------------------------|-------------------------|--------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VLCS031714-7</b> | SampType: <b>LCSD</b>   | TestCode: <b>VOC_W+</b> | Units: <b>mg/L</b> | Prep Date:                      | Run ID: <b>VOA-7_140317A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>         | Batch ID: <b>R97230</b> | TestNo: <b>SW8260B</b>  |                    | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627338</b>        |          |           |             |      |          |      |
| Analyte                        | Result                  | PQL                     | SPK value          | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |         |        |      |   |      |    |     |         |       |    |  |
|---------------------------|---------|--------|------|---|------|----|-----|---------|-------|----|--|
| 1,1,1-Trichloroethane     | 0.01996 | 0.0050 | 0.02 | 0 | 99.8 | 70 | 130 | 0.0203  | 1.69  | 20 |  |
| 1,1,2,2-Tetrachloroethane | 0.02062 | 0.0050 | 0.02 | 0 | 103  | 70 | 130 | 0.01975 | 4.31  | 20 |  |
| 1,1,2-Trichloroethane     | 0.01957 | 0.0050 | 0.02 | 0 | 97.8 | 70 | 130 | 0.01978 | 1.07  | 20 |  |
| 1,1-Dichloroethane        | 0.02049 | 0.0050 | 0.02 | 0 | 102  | 70 | 130 | 0.02217 | 7.88  | 20 |  |
| 1,1-Dichloroethane        | 0.01662 | 0.0050 | 0.02 | 0 | 83.1 | 70 | 130 | 0.01855 | 11.0  | 20 |  |
| 1,2-Dichloroethane        | 0.01995 | 0.0050 | 0.02 | 0 | 99.8 | 70 | 130 | 0.02004 | 0.450 | 20 |  |
| 1,2-Dichloropropane       | 0.02049 | 0.0050 | 0.02 | 0 | 102  | 70 | 130 | 0.02095 | 2.22  | 20 |  |
| 2-Butanone                | 0.03847 | 0.020  | 0.04 | 0 | 96.2 | 70 | 130 | 0.04505 | 15.8  | 20 |  |
| 2-Hexanone                | 0.03594 | 0.020  | 0.04 | 0 | 89.8 | 70 | 130 | 0.0372  | 3.45  | 20 |  |
| 4-Methyl-2-pentanone      | 0.03852 | 0.020  | 0.04 | 0 | 96.3 | 70 | 130 | 0.04163 | 7.76  | 20 |  |
| Acetone                   | 0.04474 | 0.020  | 0.04 | 0 | 112  | 50 | 150 | 0.04808 | 7.20  | 20 |  |
| Benzene                   | 0.02015 | 0.0050 | 0.02 | 0 | 101  | 70 | 130 | 0.02137 | 5.88  | 20 |  |
| Bromodichloromethane      | 0.02129 | 0.0050 | 0.02 | 0 | 106  | 70 | 130 | 0.02112 | 0.802 | 20 |  |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97230**

| Sample ID: <b>VLCS031714-7</b> | SampType: <b>LCSD</b>   | TestCode: <b>VOC_W+</b> | Units: <b>mg/L</b>              | Prep Date:  |      |          |                       | Run ID: <b>VOA-7_140317A</b> |       |          |      |
|--------------------------------|-------------------------|-------------------------|---------------------------------|-------------|------|----------|-----------------------|------------------------------|-------|----------|------|
| Client ID: <b>ZZZZ</b>         | Batch ID: <b>R97230</b> | TestNo: <b>SW8260B</b>  | Analysis Date: <b>3/17/2014</b> |             |      |          | SeqNo: <b>2627338</b> |                              |       |          |      |
| Analyte                        | Result                  | PQL                     | SPK value                       | SPK Ref Val | %REC | LowLimit | HighLimit             | RPD Ref Val                  | %RPD  | RPDLimit | Qual |
| Bromoform                      | 0.02077                 | 0.0050                  | 0.02                            | 0           | 104  | 70       | 130                   | 0.02206                      | 6.02  | 20       |      |
| Bromomethane                   | 0.01923                 | 0.010                   | 0.02                            | 0           | 96.2 | 70       | 130                   | 0.02152                      | 11.2  | 20       |      |
| Carbon disulfide               | 0.04815                 | 0.010                   | 0.04                            | 0           | 120  | 70       | 130                   | 0.05092                      | 5.59  | 20       |      |
| Carbon tetrachloride           | 0.02005                 | 0.0050                  | 0.02                            | 0           | 100  | 70       | 130                   | 0.01987                      | 0.902 | 20       |      |
| Chlorobenzene                  | 0.0197                  | 0.0050                  | 0.02                            | 0           | 98.5 | 70       | 130                   | 0.02053                      | 4.13  | 20       |      |
| Chloroethane                   | 0.02158                 | 0.010                   | 0.02                            | 0           | 108  | 70       | 130                   | 0.02259                      | 4.57  | 20       |      |
| Chloroform                     | 0.02107                 | 0.0050                  | 0.02                            | 0           | 105  | 70       | 130                   | 0.02217                      | 5.09  | 20       |      |
| Chloromethane                  | 0.01791                 | 0.010                   | 0.02                            | 0           | 89.6 | 70       | 130                   | 0.01845                      | 2.97  | 20       |      |
| cis-1,2-Dichloroethene         | 0.02134                 | 0.0050                  | 0.02                            | 0           | 107  | 70       | 130                   | 0.0222                       | 3.95  | 20       |      |
| cis-1,3-Dichloropropene        | 0.01924                 | 0.0010                  | 0.02                            | 0           | 96.2 | 70       | 130                   | 0.0202                       | 4.87  | 20       |      |
| Dibromochloromethane           | 0.01978                 | 0.0050                  | 0.02                            | 0           | 98.9 | 70       | 130                   | 0.02129                      | 7.35  | 20       |      |
| Ethylbenzene                   | 0.02037                 | 0.0050                  | 0.02                            | 0           | 102  | 70       | 130                   | 0.02152                      | 5.49  | 20       |      |
| Methyl tert-butyl ether        | 0.02024                 | 0.0050                  | 0.02                            | 0           | 101  | 50       | 150                   | 0.02118                      | 4.54  | 20       |      |
| Methylene chloride             | 0.02026                 | 0.0050                  | 0.02                            | 0           | 101  | 70       | 130                   | 0.02151                      | 5.99  | 20       |      |
| Styrene                        | 0.021                   | 0.0050                  | 0.02                            | 0           | 105  | 70       | 130                   | 0.02206                      | 4.92  | 20       |      |
| Tetrachloroethene              | 0.01995                 | 0.0050                  | 0.02                            | 0           | 99.8 | 70       | 130                   | 0.02114                      | 5.79  | 20       |      |
| Toluene                        | 0.0205                  | 0.0050                  | 0.02                            | 0           | 103  | 70       | 130                   | 0.02107                      | 2.74  | 20       |      |
| trans-1,2-Dichloroethene       | 0.02044                 | 0.0050                  | 0.02                            | 0           | 102  | 70       | 130                   | 0.02135                      | 4.36  | 20       |      |
| trans-1,3-Dichloropropene      | 0.01903                 | 0.0010                  | 0.02                            | 0           | 95.2 | 70       | 130                   | 0.02008                      | 5.37  | 20       |      |
| Trichloroethene                | 0.02035                 | 0.0050                  | 0.02                            | 0           | 102  | 70       | 130                   | 0.02014                      | 1.04  | 20       |      |
| Vinyl chloride                 | 0.0188                  | 0.0020                  | 0.02                            | 0           | 94   | 70       | 130                   | 0.02079                      | 10.1  | 20       |      |
| Xylenes, Total                 | 0.05892                 | 0.015                   | 0.06                            | 0           | 98.2 | 70       | 130                   | 0.06189                      | 4.92  | 20       |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |



**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill  
**Test No:** SW8270C **Matrix:** S

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID      | CLPH2D4 | DCBZ12D4 | NO2BZD5 | PH246BR | PH2F | PHD5 | PHEN2F | PHEND14 |
|----------------|---------|----------|---------|---------|------|------|--------|---------|
| MB-75151-SVOC  | 80.6    | 86.0     | 88.0    | 101     | 78.3 | 83.5 | 86.5   | 86.7    |
| LCS-75151-SVOC | 77.6    | 80.1     | 81.2    | 98.1    | 74.4 | 78.9 | 82.7   | 80.2    |
| 14030499-005B  | 68.9    | 71.4     | 75.7    | 92.6    | 66.3 | 70.5 | 74.7   | 80.2    |
| 14030499-006B  | 63.9    | 65.7     | 69.1    | 90.5    | 61.5 | 67.4 | 70.7   | 78.2    |
| 14030499-007B  | 80.9    | 85.9     | 86.5    | 102     | 78.2 | 83.0 | 86.2   | 86.8    |
| 14030499-008B  | 66.7    | 69.6     | 70.7    | 87.6    | 64.7 | 70.4 | 72.8   | 77.0    |
| 14030499-009B  | 64.0    | 65.6     | 69.7    | 89.8    | 62.0 | 67.7 | 73.8   | 75.3    |

| Acronym  | Surrogate                | QC Limits |
|----------|--------------------------|-----------|
| CLPH2D4  | = 2-Chlorophenol-d4      | 20-130    |
| DCBZ12D4 | = 1,2-Dichlorobenzene-d4 | 20-130    |
| NO2BZD5  | = Nitrobenzene-d5        | 23-120    |
| PH246BR  | = 2,4,6-Tribromophenol   | 19-122    |
| PH2F     | = 2-Fluorophenol         | 25-121    |
| PHD5     | = Phenol-d5              | 24-113    |
| PHEN2F   | = 2-Fluorobiphenyl       | 30-115    |
| PHEND14  | = 4-Terphenyl-d14        | 18-137    |

**\* Surrogate recovery outside acceptance limit**

Prep Start Date: **3/17/2014 5:13:02 P**

Prep End Date:

Prep Factor Units:

 Prep Batch **75151**

 Prep Code: **3550\_SVOC**

 Technician: **CMH**

mL / Kg

| Sample ID        | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor | PrepStart | PrepEnd   |
|------------------|--------|----|---------|-----------|-----------|---------|--------|-----------|-----------|
| MB-75151-SVOC    |        |    | 0.03    | 0         | 0         | 1       | 33.333 | 3/17/2014 | 3/18/2014 |
| LCS-75151-SVOC   |        |    | 0.03    | 0         | 0         | 1       | 33.333 | 3/17/2014 | 3/18/2014 |
| 14030499-005B    | Soil   |    | 0.03018 | 0         | 0         | 1       | 33.135 | 3/17/2014 | 3/18/2014 |
| 14030499-006B    | Soil   |    | 0.03019 | 0         | 0         | 1       | 33.124 | 3/17/2014 | 3/18/2014 |
| 14030499-007B    | Soil   |    | 0.03017 | 0         | 0         | 1       | 33.146 | 3/17/2014 | 3/18/2014 |
| 14030499-008B    | Soil   |    | 0.0302  | 0         | 0         | 1       | 33.113 | 3/17/2014 | 3/18/2014 |
| 14030499-009B    | Soil   |    | 0.03005 | 0         | 0         | 1       | 33.278 | 3/17/2014 | 3/18/2014 |
| 14030415-007B    | Soil   |    | 0.03032 | 0         | 0         | 1       | 32.982 | 3/18/2014 |           |
| 14030415-008B    | Soil   |    | 0.03028 | 0         | 0         | 1       | 33.025 | 3/18/2014 |           |
| 14030415-009B    | Soil   |    | 0.03008 | 0         | 0         | 1       | 33.245 | 3/18/2014 |           |
| 14030415-010B    | Soil   |    | 0.03031 | 0         | 0         | 1       | 32.992 | 3/18/2014 |           |
| 14030415-011B    | Soil   |    | 0.03019 | 0         | 0         | 1       | 33.124 | 3/18/2014 |           |
| 14030415-012B    | Soil   |    | 0.03019 | 0         | 0         | 1       | 33.124 | 3/18/2014 |           |
| 14030415-013B    | Soil   |    | 0.03026 | 0         | 0         | 1       | 33.047 | 3/18/2014 |           |
| 14030415-014B    | Soil   |    | 0.03009 | 0         | 0         | 1       | 33.234 | 3/18/2014 |           |
| 14030415-015B    | Soil   |    | 0.03009 | 0         | 0         | 1       | 33.234 | 3/18/2014 |           |
| 14030423-002A    | Solid  |    | 0.03048 | 0         | 0         | 1       | 32.808 | 3/18/2014 |           |
| 14030475-002B    | Soil   |    | 0.03003 | 0         | 0         | 1       | 33.300 | 3/18/2014 |           |
| 14030492-001B    | Soil   |    | 0.03008 | 0         | 0         | 1       | 33.245 | 3/18/2014 |           |
| 14030492-004B    | Soil   |    | 0.03004 | 0         | 0         | 1       | 33.289 | 3/18/2014 |           |
| 14030492-006B    | Soil   |    | 0.03019 | 0         | 0         | 1       | 33.124 | 3/18/2014 |           |
| 14030431-002A    | Soil   |    | 0.03015 | 0         | 0         | 1       | 33.167 | 3/17/2014 |           |
| 14030431-002AMS  | Soil   |    | 0.03017 | 0         | 0         | 1       | 33.146 | 3/17/2014 |           |
| 14030431-002AMSD | Soil   |    | 0.03017 | 0         | 0         | 1       | 33.146 | 3/17/2014 |           |
| 14030415-011BMS  | Soil   |    | 0.03014 | 0         | 0         | 1       | 33.179 | 3/17/2014 |           |

Prep Start Date: **3/17/2014 5:13:02 P**

Prep End Date:

Prep Factor Units:

Prep Batch **75151**    Prep Code: **3550\_SVOC**    Technician: **CMH**

**mL / Kg**

| Sample ID        | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor | PrepStart | PrepEnd |
|------------------|--------|----|---------|-----------|-----------|---------|--------|-----------|---------|
| 14030415-011BMSD | Soil   |    | 0.03014 | 0         | 0         | 1       | 33.179 | 3/17/2014 |         |

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75151

|                                 |                        |                            |                     |                                 |                               |          |           |             |      |          |      |
|---------------------------------|------------------------|----------------------------|---------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-75151-SVOC</b> | SampType: <b>MBLK</b>  | TestCode: <b>SVOC_SOIL</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>SVOC-6_140318A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>75151</b> | TestNo: <b>SW8270C</b>     |                     | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627772</b>         |          |           |             |      |          |      |
| Analyte                         | Result                 | PQL                        | SPK value           | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                        |    |       |  |  |  |  |  |  |  |  |  |
|------------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Acenaphthene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Acenaphthylene         | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Anthracene             | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benz(a)anthracene      | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(a)pyrene         | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(b)fluoranthene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(g,h,i)perylene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(k)fluoranthene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Chrysene               | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Dibenz(a,h)anthracene  | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Fluoranthene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Fluorene               | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Indeno(1,2,3-cd)pyrene | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Naphthalene            | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Phenanthrene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Pyrene                 | ND | 0.033 |  |  |  |  |  |  |  |  |  |

|                                  |                        |                            |                     |                                 |                               |          |           |             |      |          |      |
|----------------------------------|------------------------|----------------------------|---------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-75151-SVOC</b> | SampType: <b>LCS</b>   | TestCode: <b>SVOC_SOIL</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>SVOC-6_140318A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>           | Batch ID: <b>75151</b> | TestNo: <b>SW8270C</b>     |                     | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627799</b>         |          |           |             |      |          |      |
| Analyte                          | Result                 | PQL                        | SPK value           | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |       |       |       |   |      |    |     |   |   |  |  |
|---------------------------|-------|-------|-------|---|------|----|-----|---|---|--|--|
| Acenaphthene              | 1.371 | 0.033 | 1.667 | 0 | 82.2 | 37 | 134 | 0 | 0 |  |  |
| 4-Chloro-3-methylphenol   | 2.971 | 0.33  | 3.333 | 0 | 89.1 | 29 | 134 | 0 | 0 |  |  |
| 2-Chlorophenol            | 2.571 | 0.17  | 3.333 | 0 | 77.1 | 29 | 105 | 0 | 0 |  |  |
| 1,4-Dichlorobenzene       | 1.302 | 0.17  | 1.667 | 0 | 78.1 | 26 | 111 | 0 | 0 |  |  |
| 2,4-Dinitrotoluene        | 1.513 | 0.033 | 1.667 | 0 | 90.7 | 46 | 125 | 0 | 0 |  |  |
| 4-Nitrophenol             | 3.239 | 0.33  | 3.333 | 0 | 97.2 | 12 | 146 | 0 | 0 |  |  |
| N-Nitrosodi-n-propylamine | 1.286 | 0.033 | 1.667 | 0 | 77.1 | 29 | 109 | 0 | 0 |  |  |
| Pentachlorophenol         | 3.284 | 0.067 | 3.333 | 0 | 98.5 | 10 | 192 | 0 | 0 |  |  |
| Phenol                    | 2.613 | 0.17  | 3.333 | 0 | 78.4 | 27 | 104 | 0 | 0 |  |  |
| Pyrene                    | 1.414 | 0.033 | 1.667 | 0 | 84.8 | 42 | 148 | 0 | 0 |  |  |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75151

|                           |                 |                     |              |                          |                        |          |           |             |      |          |      |
|---------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-75151-SVOC | SampType: LCS   | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/17/2014     | Run ID: SVOC-6_140318A |          |           |             |      |          |      |
| Client ID: ZZZZ           | Batch ID: 75151 | TestNo: SW8270C     |              | Analysis Date: 3/18/2014 | SeqNo: 2627799         |          |           |             |      |          |      |
| Analyte                   | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,2,4-Trichlorobenzene    | 1.35            | 0.17                | 1.667        | 0                        | 81                     | 55       | 106       | 0           | 0    |          |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill  
**Test No:** SW8270C-SIM **Matrix:** W

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID      | DCBZ12D4 | NO2BZD5 | PHEN2F | PHEND14 |  |  |  |  |
|----------------|----------|---------|--------|---------|--|--|--|--|
| MB-75150-PNA   | 78.2     | 67.8    | 92.2   | 97.4    |  |  |  |  |
| LCS-75150-PNA  | 84.2     | 79.6    | 90.2   | 90.4    |  |  |  |  |
| LCSD-75150-PNA | 100      | 92.0    | 100    | 101     |  |  |  |  |
| 14030499-001B  | 88.2     | 82.2    | 95.4   | 102     |  |  |  |  |
| 14030499-002B  | 94.0     | 87.4    | 101    | 100     |  |  |  |  |
| 14030499-003B  | 89.0     | 84.6    | 101    | 101     |  |  |  |  |
| 14030499-004B  | 93.0     | 87.2    | 98.0   | 101     |  |  |  |  |

| Acronym  | Surrogate                | QC Limits |
|----------|--------------------------|-----------|
| DCBZ12D4 | = 1,2-Dichlorobenzene-d4 | 16-110    |
| NO2BZD5  | = Nitrobenzene-d5        | 35-114    |
| PHEN2F   | = 2-Fluorobiphenyl       | 43-116    |
| PHEND14  | = 4-Terphenyl-d14        | 33-141    |

\* Surrogate recovery outside acceptance limit

Prep Start Date: **3/17/2014 4:55:20 P**

Prep End Date:

Prep Factor Units:

 Prep Batch **75150**

 Prep Code: **3510\_PNA**

 Technician: **PAA**

mL / L

| Sample ID      | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor | PrepStart | PrepEnd   |
|----------------|--------|----|---------|-----------|-----------|---------|--------|-----------|-----------|
| MB-75150-PNA   |        |    | 1       | 0         | 0         | 1       | 1.000  | 3/17/2014 | 3/17/2014 |
| LCS-75150-PNA  |        |    | 1       | 0         | 0         | 1       | 1.000  | 3/17/2014 | 3/17/2014 |
| LCSD-75150-PNA |        |    | 1       | 0         | 0         | 1       | 1.000  | 3/17/2014 | 3/17/2014 |
| 14030499-001B  | Water  |    | 1       | 0         | 0         | 1       | 1.000  | 3/17/2014 | 3/17/2014 |
| 14030499-002B  | Water  |    | 1       | 0         | 0         | 1       | 1.000  | 3/17/2014 | 3/17/2014 |
| 14030499-003B  | Water  |    | 1       | 0         | 0         | 1       | 1.000  | 3/17/2014 | 3/17/2014 |
| 14030499-004B  | Water  |    | 1       | 0         | 0         | 1       | 1.000  | 3/17/2014 | 3/17/2014 |

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75150

|                                |                        |                            |                    |                                 |                               |          |           |             |      |          |      |
|--------------------------------|------------------------|----------------------------|--------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-75150-PNA</b> | SampType: <b>MBLK</b>  | TestCode: <b>PNA_WATER</b> | Units: <b>mg/L</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>SVOC-7_140318A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>         | Batch ID: <b>75150</b> | TestNo: <b>SW8270C-SI</b>  |                    | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627779</b>         |          |           |             |      |          |      |
| Analyte                        | Result                 | PQL                        | SPK value          | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                        |    |         |  |  |  |  |  |  |  |  |  |
|------------------------|----|---------|--|--|--|--|--|--|--|--|--|
| Acenaphthene           | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Acenaphthylene         | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Anthracene             | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Benz(a)anthracene      | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Benzo(a)pyrene         | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Benzo(b)fluoranthene   | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Benzo(g,h,i)perylene   | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Benzo(k)fluoranthene   | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Chrysene               | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Dibenz(a,h)anthracene  | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Fluoranthene           | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Fluorene               | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Indeno(1,2,3-cd)pyrene | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Naphthalene            | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Phenanthrene           | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Pyrene                 | ND | 0.0010  |  |  |  |  |  |  |  |  |  |

|                          |                 |                     |             |                          |                        |          |           |             |      |          |      |
|--------------------------|-----------------|---------------------|-------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-75150-PNA | SampType: LCS   | TestCode: PNA_WATER | Units: mg/L | Prep Date: 3/17/2014     | Run ID: SVOC-7_140318A |          |           |             |      |          |      |
| Client ID: ZZZZ          | Batch ID: 75150 | TestNo: SW8270C-SI  |             | Analysis Date: 3/18/2014 | SeqNo: 2627780         |          |           |             |      |          |      |
| Analyte                  | Result          | PQL                 | SPK value   | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                       |         |         |       |   |      |    |     |   |   |  |  |
|-----------------------|---------|---------|-------|---|------|----|-----|---|---|--|--|
| Acenaphthene          | 0.00452 | 0.0010  | 0.005 | 0 | 90.4 | 50 | 125 | 0 | 0 |  |  |
| Acenaphthylene        | 0.00449 | 0.0010  | 0.005 | 0 | 89.8 | 50 | 125 | 0 | 0 |  |  |
| Anthracene            | 0.00455 | 0.0010  | 0.005 | 0 | 91   | 50 | 125 | 0 | 0 |  |  |
| Benz(a)anthracene     | 0.00452 | 0.00010 | 0.005 | 0 | 90.4 | 50 | 125 | 0 | 0 |  |  |
| Benzo(a)pyrene        | 0.0042  | 0.00010 | 0.005 | 0 | 84   | 50 | 125 | 0 | 0 |  |  |
| Benzo(b)fluoranthene  | 0.00456 | 0.00010 | 0.005 | 0 | 91.2 | 50 | 125 | 0 | 0 |  |  |
| Benzo(g,h,i)perylene  | 0.00446 | 0.0010  | 0.005 | 0 | 89.2 | 50 | 125 | 0 | 0 |  |  |
| Benzo(k)fluoranthene  | 0.00468 | 0.00010 | 0.005 | 0 | 93.6 | 50 | 125 | 0 | 0 |  |  |
| Chrysene              | 0.00479 | 0.00010 | 0.005 | 0 | 95.8 | 50 | 125 | 0 | 0 |  |  |
| Dibenz(a,h)anthracene | 0.00432 | 0.00010 | 0.005 | 0 | 86.4 | 50 | 125 | 0 | 0 |  |  |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |



**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75150

|                                 |                        |                            |                    |                                 |                               |          |           |             |      |          |      |
|---------------------------------|------------------------|----------------------------|--------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-75150-PNA</b> | SampType: <b>LCS</b>   | TestCode: <b>PNA_WATER</b> | Units: <b>mg/L</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>SVOC-7_140318A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>75150</b> | TestNo: <b>SW8270C-SI</b>  |                    | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627780</b>         |          |           |             |      |          |      |
| Analyte                         | Result                 | PQL                        | SPK value          | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                        |         |         |       |   |      |    |     |   |   |  |  |
|------------------------|---------|---------|-------|---|------|----|-----|---|---|--|--|
| Fluoranthene           | 0.00474 | 0.0010  | 0.005 | 0 | 94.8 | 50 | 125 | 0 | 0 |  |  |
| Fluorene               | 0.00457 | 0.0010  | 0.005 | 0 | 91.4 | 50 | 125 | 0 | 0 |  |  |
| Indeno(1,2,3-cd)pyrene | 0.00452 | 0.00010 | 0.005 | 0 | 90.4 | 50 | 125 | 0 | 0 |  |  |
| Naphthalene            | 0.00424 | 0.0010  | 0.005 | 0 | 84.8 | 50 | 125 | 0 | 0 |  |  |
| Phenanthrene           | 0.0045  | 0.0010  | 0.005 | 0 | 90   | 50 | 125 | 0 | 0 |  |  |
| Pyrene                 | 0.00469 | 0.0010  | 0.005 | 0 | 93.8 | 50 | 125 | 0 | 0 |  |  |

|                                  |                        |                            |                    |                                 |                               |          |           |             |      |          |      |
|----------------------------------|------------------------|----------------------------|--------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCSD-75150-PNA</b> | SampType: <b>LCSD</b>  | TestCode: <b>PNA_WATER</b> | Units: <b>mg/L</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>SVOC-7_140318A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>           | Batch ID: <b>75150</b> | TestNo: <b>SW8270C-SI</b>  |                    | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627809</b>         |          |           |             |      |          |      |
| Analyte                          | Result                 | PQL                        | SPK value          | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                        |         |         |       |   |      |    |     |         |      |    |  |
|------------------------|---------|---------|-------|---|------|----|-----|---------|------|----|--|
| Acenaphthene           | 0.00481 | 0.0010  | 0.005 | 0 | 96.2 | 50 | 125 | 0.00452 | 6.22 | 25 |  |
| Acenaphthylene         | 0.00496 | 0.0010  | 0.005 | 0 | 99.2 | 50 | 125 | 0.00449 | 9.95 | 25 |  |
| Anthracene             | 0.00487 | 0.0010  | 0.005 | 0 | 97.4 | 50 | 125 | 0.00455 | 6.79 | 25 |  |
| Benz(a)anthracene      | 0.00486 | 0.00010 | 0.005 | 0 | 97.2 | 50 | 125 | 0.00452 | 7.25 | 25 |  |
| Benzo(a)pyrene         | 0.0044  | 0.00010 | 0.005 | 0 | 88   | 50 | 125 | 0.0042  | 4.65 | 25 |  |
| Benzo(b)fluoranthene   | 0.00487 | 0.00010 | 0.005 | 0 | 97.4 | 50 | 125 | 0.00456 | 6.57 | 25 |  |
| Benzo(g,h,i)perylene   | 0.00479 | 0.0010  | 0.005 | 0 | 95.8 | 50 | 125 | 0.00446 | 7.14 | 25 |  |
| Benzo(k)fluoranthene   | 0.00488 | 0.00010 | 0.005 | 0 | 97.6 | 50 | 125 | 0.00468 | 4.18 | 25 |  |
| Chrysene               | 0.00519 | 0.00010 | 0.005 | 0 | 104  | 50 | 125 | 0.00479 | 8.02 | 25 |  |
| Dibenz(a,h)anthracene  | 0.00456 | 0.00010 | 0.005 | 0 | 91.2 | 50 | 125 | 0.00432 | 5.41 | 25 |  |
| Fluoranthene           | 0.00508 | 0.0010  | 0.005 | 0 | 102  | 50 | 125 | 0.00474 | 6.92 | 25 |  |
| Fluorene               | 0.00483 | 0.0010  | 0.005 | 0 | 96.6 | 50 | 125 | 0.00457 | 5.53 | 25 |  |
| Indeno(1,2,3-cd)pyrene | 0.00497 | 0.00010 | 0.005 | 0 | 99.4 | 50 | 125 | 0.00452 | 9.48 | 25 |  |
| Naphthalene            | 0.00467 | 0.0010  | 0.005 | 0 | 93.4 | 50 | 125 | 0.00424 | 9.65 | 25 |  |
| Phenanthrene           | 0.00496 | 0.0010  | 0.005 | 0 | 99.2 | 50 | 125 | 0.0045  | 9.73 | 25 |  |
| Pyrene                 | 0.00509 | 0.0010  | 0.005 | 0 | 102  | 50 | 125 | 0.00469 | 8.18 | 25 |  |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

Prep Start Date: **3/17/2014 5:40:44 P**

Prep End Date:

Prep Factor Units:

 Prep Batch **75152**

 Prep Code: **3580\_TPH**

 Technician: **MDM**

mL / Kg

| Sample ID        | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor   | PrepStart | PrepEnd   |
|------------------|--------|----|---------|-----------|-----------|---------|----------|-----------|-----------|
| MB-75152-TPH     |        |    | 0.005   | 0         | 0         | 5       | 1000.000 | 3/17/2014 | 3/17/2014 |
| LCS-75152-TPH    |        |    | 0.005   | 0         | 0         | 5       | 1000.000 | 3/17/2014 | 3/17/2014 |
| 14030492-010B    | Soil   |    | 0.00518 | 0         | 0         | 5       | 965.251  | 3/17/2014 | 3/17/2014 |
| 14030499-005B    | Soil   |    | 0.00533 | 0         | 0         | 5       | 938.086  | 3/17/2014 | 3/17/2014 |
| 14030499-006B    | Soil   |    | 0.00522 | 0         | 0         | 5       | 957.854  | 3/17/2014 | 3/17/2014 |
| 14030499-007B    | Soil   |    | 0.00552 | 0         | 0         | 5       | 905.797  | 3/17/2014 | 3/17/2014 |
| 14030499-008B    | Soil   |    | 0.00533 | 0         | 0         | 5       | 938.086  | 3/17/2014 | 3/17/2014 |
| 14030499-009B    | Soil   |    | 0.00559 | 0         | 0         | 5       | 894.454  | 3/17/2014 | 3/17/2014 |
| 14030499-006BMS  | Soil   |    | 0.00522 | 0         | 0         | 5       | 957.854  | 3/17/2014 | 3/17/2014 |
| 14030499-006BMSD | Soil   |    | 0.00523 | 0         | 0         | 5       | 956.023  | 3/17/2014 | 3/17/2014 |

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75152

|                         |                 |                 |              |                          |                          |          |           |             |      |          |      |
|-------------------------|-----------------|-----------------|--------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75152-TPH | SampType: MBLK  | TestCode: TPH_S | Units: mg/Kg | Prep Date: 3/17/2014     | Run ID: GC-FID-2_140317A |          |           |             |      |          |      |
| Client ID: ZZZZ         | Batch ID: 75152 | TestNo: SW8015M |              | Analysis Date: 3/17/2014 | SeqNo: 2627762           |          |           |             |      |          |      |
| Analyte                 | Result          | PQL             | SPK value    | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |      |    |  |  |  |  |  |  |  |  |   |
|-----------|------|----|--|--|--|--|--|--|--|--|---|
| TPH (GRO) | ND   | 20 |  |  |  |  |  |  |  |  |   |
| TPH (DRO) | 16.6 | 20 |  |  |  |  |  |  |  |  | J |
| TPH (ERO) | ND   | 20 |  |  |  |  |  |  |  |  | * |

|                                 |                        |                        |                     |                                 |                                 |          |           |             |      |          |      |
|---------------------------------|------------------------|------------------------|---------------------|---------------------------------|---------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-75152-TPH</b> | SampType: <b>LCS</b>   | TestCode: <b>TPH_S</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>GC-FID-2_140317A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>75152</b> | TestNo: <b>SW8015M</b> |                     | Analysis Date: <b>3/17/2014</b> | SeqNo: <b>2627763</b>           |          |           |             |      |          |      |
| Analyte                         | Result                 | PQL                    | SPK value           | SPK Ref Val                     | %REC                            | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |     |      |      |    |     |   |   |  |   |
|-----------|-------|----|-----|------|------|----|-----|---|---|--|---|
| TPH (GRO) | 121.7 | 20 | 200 | 0    | 60.8 | 30 | 150 | 0 | 0 |  |   |
| TPH (DRO) | 132.4 | 20 | 200 | 16.6 | 57.9 | 30 | 150 | 0 | 0 |  |   |
| TPH (ERO) | 231.6 | 20 | 200 | 0    | 116  | 30 | 150 | 0 | 0 |  | * |

|                               |                 |                 |                  |                          |                          |          |           |             |      |          |      |
|-------------------------------|-----------------|-----------------|------------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030499-006BMS    | SampType: MS    | TestCode: TPH_S | Units: mg/Kg-dry | Prep Date: 3/17/2014     | Run ID: GC-FID-2_140317A |          |           |             |      |          |      |
| Client ID: BKG-SB01-031514(0- | Batch ID: 75152 | TestNo: SW8015M |                  | Analysis Date: 3/17/2014 | SeqNo: 2627765           |          |           |             |      |          |      |
| Analyte                       | Result          | PQL             | SPK value        | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |       |       |      |    |     |   |   |  |   |
|-----------|-------|----|-------|-------|------|----|-----|---|---|--|---|
| TPH (GRO) | 148.9 | 23 | 229.2 | 0     | 65   | 30 | 150 | 0 | 0 |  |   |
| TPH (DRO) | 164.7 | 23 | 229.2 | 6.903 | 68.8 | 30 | 150 | 0 | 0 |  |   |
| TPH (ERO) | 305.4 | 23 | 229.2 | 0     | 133  | 30 | 150 | 0 | 0 |  | * |

|                               |                 |                 |                  |                          |                          |          |           |             |      |          |      |
|-------------------------------|-----------------|-----------------|------------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030499-006BMSD   | SampType: MSD   | TestCode: TPH_S | Units: mg/Kg-dry | Prep Date: 3/17/2014     | Run ID: GC-FID-2_140317A |          |           |             |      |          |      |
| Client ID: BKG-SB01-031514(0- | Batch ID: 75152 | TestNo: SW8015M |                  | Analysis Date: 3/17/2014 | SeqNo: 2627766           |          |           |             |      |          |      |
| Analyte                       | Result          | PQL             | SPK value        | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |       |       |      |    |     |       |      |    |   |
|-----------|-------|----|-------|-------|------|----|-----|-------|------|----|---|
| TPH (GRO) | 145.7 | 23 | 228.7 | 0     | 63.7 | 30 | 150 | 148.9 | 2.20 | 25 |   |
| TPH (DRO) | 159.9 | 23 | 228.7 | 6.903 | 66.9 | 30 | 150 | 164.7 | 2.95 | 25 |   |
| TPH (ERO) | 308.9 | 23 | 228.7 | 0     | 135  | 30 | 150 | 305.4 | 1.12 | 25 | * |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030499  
**Project:** 5-031714-000630-0001, Buckeye-Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97238**

|                                 |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|---------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMMBK 3/17/14</b> | SampType: <b>MBLK</b>   | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>BALANCE_140317D</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97238</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627549</b>          |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |    |       |  |  |  |  |  |  |  |  |   |
|------------------|----|-------|--|--|--|--|--|--|--|--|---|
| Percent Moisture | ND | 0.200 |  |  |  |  |  |  |  |  | * |
|------------------|----|-------|--|--|--|--|--|--|--|--|---|

|                                   |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|-----------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMLCS-S 3/17/14</b> | SampType: <b>LCS</b>    | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>BALANCE_140317D</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>            | Batch ID: <b>R97238</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627550</b>          |          |           |             |      |          |      |
| Analyte                           | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |      |       |   |   |      |    |     |   |   |  |   |
|------------------|------|-------|---|---|------|----|-----|---|---|--|---|
| Percent Moisture | 4.89 | 0.200 | 5 | 0 | 97.8 | 80 | 120 | 0 | 0 |  | * |
|------------------|------|-------|---|---|------|----|-----|---|---|--|---|

|                                   |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|-----------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMLCS-W 3/17/14</b> | SampType: <b>LCS</b>    | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/17/2014</b>     | Run ID: <b>BALANCE_140317D</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>            | Batch ID: <b>R97238</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2627551</b>          |          |           |             |      |          |      |
| Analyte                           | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |       |       |      |   |     |    |     |   |   |  |   |
|------------------|-------|-------|------|---|-----|----|-----|---|---|--|---|
| Percent Moisture | 99.84 | 0.200 | 99.8 | 0 | 100 | 80 | 120 | 0 | 0 |  | * |
|------------------|-------|-------|------|---|-----|----|-----|---|---|--|---|

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

March 19, 2014

Weston Solutions  
20 North Wacker Drive  
Chicago, IL 60606

Telephone: (312) 424-3339  
Fax: (312) 424-3330

Analytical Report for STAT Workorder: 14030549 Revision 0

RE: Kankakee Gas ER

Dear Lisa Graczyk:

STAT Analysis received 1 sample for the referenced project on 3/18/2014 8:15:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Weston Solutions  
**Project:** Kankakee Gas ER  
**Lab Order:** 14030549

**Work Order Sample Summary**

---

| <b>Lab Sample ID</b> | <b>Client Sample ID</b> | <b>Tag Number</b> | <b>Collection Date</b> | <b>Date Received</b> |
|----------------------|-------------------------|-------------------|------------------------|----------------------|
| 14030549-001A        | BKG-SWS-031714          |                   | 3/17/2014 4:25:00 PM   | 3/18/2014            |
| 14030549-001B        | BKG-SWS-031714          |                   | 3/17/2014 4:25:00 PM   | 3/18/2014            |

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 19, 2014

Date Printed: March 19, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SWS-031714

Lab Order: 14030549

Collection Date: 3/17/2014 4:25:00 PM

Project: Kankakee Gas ER

Matrix: Soil

Lab ID: 14030549-001

| Analyses  | Result                   | RL    | Qualifier | Units     | DF                   | Date Analyzed |
|---|--------------------------|-------|-----------|-----------|----------------------|---------------|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |       |           |           | Prep Date: 3/19/2014 | Analyst: MDM  |
| TPH (GRO)   | ND                       | 23    |           | mg/Kg-dry | 1                    | 3/19/2014     |
| TPH (DRO)   | ND                       | 23    |           | mg/Kg-dry | 1                    | 3/19/2014     |
| TPH (ERO)   | ND                       | 23    | *         | mg/Kg-dry | 1                    | 3/19/2014     |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |       |           |           | Prep Date: 3/19/2014 | Analyst: DM   |
| Acenaphthene                                      | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Acenaphthylene                                    | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Anthracene  | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Benz(a)anthracene                                 | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Benzo(a)pyrene                                    | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Benzo(b)fluoranthene                              | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Benzo(g,h,i)perylene                              | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Benzo(k)fluoranthene                              | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Chrysene  | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Dibenz(a,h)anthracene                             | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Fluoranthene                                      | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Fluorene  | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Naphthalene                                       | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Phenanthrene                                      | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| Pyrene  | ND                       | 0.038 |           | mg/Kg-dry | 1                    | 3/19/2014     |
| <b>Volatile Organic Compounds by GC/MS</b>        | <b>SW5035/8260B</b>      |       |           |           | Prep Date: 3/18/2014 | Analyst: ERP  |
| Acetone   | ND                       | 5.3   |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Benzene   | 0.36                     | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Bromodichloromethane                              | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Bromoform   | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Bromomethane                                      | ND                       | 0.71  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| 2-Butanone  | ND                       | 5.3   |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Carbon disulfide                                  | ND                       | 3.6   |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Carbon tetrachloride                              | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Chlorobenzene                                     | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Chloroethane                                      | ND                       | 0.71  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Chloroform  | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Chloromethane                                     | ND                       | 0.71  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| Dibromochloromethane                              | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| 1,1-Dichloroethane                                | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| 1,2-Dichloroethane                                | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |
| 1,1-Dichloroethene                                | ND                       | 0.36  |           | mg/Kg-dry | 50                   | 3/19/2014     |

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: March 19, 2014

Date Printed: March 19, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Lab Order: 14030549

Project: Kankakee Gas ER

Lab ID: 14030549-001

Client Sample ID: BKG-SWS-031714

Collection Date: 3/17/2014 4:25:00 PM

Matrix: Soil

| Analyses                                   | Result              | RL   | Qualifier | Units     | DF                          | Date Analyzed       |
|--|---------------------|------|-----------|-----------|-----------------------------|---------------------|
| <b>Volatile Organic Compounds by GC/MS</b> | <b>SW5035/8260B</b> |      |           |           | Prep Date: <b>3/18/2014</b> | Analyst: <b>ERP</b> |
| cis-1,2-Dichloroethene                     | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| trans-1,2-Dichloroethene                   | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| 1,2-Dichloropropane                        | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| cis-1,3-Dichloropropene                    | ND                  | 0.14 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| trans-1,3-Dichloropropene                  | ND                  | 0.14 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Ethylbenzene                               | 1.6                 | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| 2-Hexanone                                 | ND                  | 1.4  |           | mg/Kg-dry | 50                          | 3/19/2014           |
| 4-Methyl-2-pentanone                       | ND                  | 1.4  |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Methylene chloride                         | ND                  | 0.71 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Methyl tert-butyl ether                    | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Styrene                                    | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| 1,1,2,2-Tetrachloroethane                  | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Tetrachloroethene                          | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Toluene                                    | 5                   | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| 1,1,1-Trichloroethane                      | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| 1,1,2-Trichloroethane                      | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Trichloroethene                            | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Vinyl chloride                             | ND                  | 0.36 |           | mg/Kg-dry | 50                          | 3/19/2014           |
| Xylenes, Total                             | 9                   | 1.1  |           | mg/Kg-dry | 50                          | 3/19/2014           |
| <b>Percent Moisture</b>                    | <b>D2974</b>        |      |           |           | Prep Date: <b>3/18/2014</b> | Analyst: <b>VA</b>  |
| Percent Moisture                           | 13.2                | 0.2  | *         | wt%       | 1                           | 3/19/2014           |

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded



5 of 20

### Sample Receipt Checklist

Client Name WESTON CHICAGO

Date and Time Received: 3/18/2014 8:15:00 PM

Work Order Number 14030549

Received by: DO

Checklist completed by:

Signature

3/18/14

Date

Reviewed by:

Initials

Date

Matrix:

Carrier name Client Delivered

|   |   |                              |   |
|---|---|------------------------------|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>  | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>  | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  |   |
| Chain of custody agrees with sample labels/containers?  | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  |   |
| Container or Temp Blank temperature in compliance?      | Yes <input checked="" type="checkbox"/>         | No <input type="checkbox"/>  | Temperature 5.6 °C                              |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/>                     |
| Water - Samples pH checked?                             | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>  | Checked by: _____                               |
| Water - Samples properly preserved?                     | Yes <input type="checkbox"/>                    | No <input type="checkbox"/>  | pH Adjusted? _____                              |

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

**CLIENT:** Weston Solutions

**Work Order:** 14030549

**Project:** Kankakee Gas ER

**Test No:** SW5035/8260B

**Matrix:** S

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID        | BR4FBZ | BZMED8 | DBFM | DCA12D4 |  |  |  |  |
|------------------|--------|--------|------|---------|--|--|--|--|
| VBLK031814B-1    | 81.9   | 94.5   | 100  | 103     |  |  |  |  |
| VLCS031814B-1    | 97.8   | 108    | 116  | 101     |  |  |  |  |
| VLCS031814B-1    | 96.4   | 107    | 110  | 103     |  |  |  |  |
| 14030549-001A:50 | 87.4   | 102    | 96.9 | 98.6    |  |  |  |  |

| Acronym | Surrogate               | QC Limits |
|---------|-------------------------|-----------|
| BR4FBZ  | = 4-Bromofluorobenzene  | 63-110    |
| BZMED8  | = Toluene-d8            | 85-110    |
| DBFM    | = Dibromofluoromethane  | 83-119    |
| DCA12D4 | = 1,2-Dichloroethane-d4 | 84-129    |

\* Surrogate recovery outside acceptance limit

## Analytical Run Summary

Run ID: VOA-1\_140318B (R97262)

Analyst: ERP

Printed: 19-Mar-14

| SeqNo   | Sample ID     | Type | Test Code   | Batch  | DF  | File ID              | Date/Time Analyzed |
|---------|---------------|------|-------------|--------|-----|----------------------|--------------------|
| 2628217 | BFB031814B-1  | TUNE | BFB         | R97262 | 1   | F:\VOC-1\031814B\031 | 03/18/2014 21:43   |
| 2628225 | VSTD100R      | CCV  | VOC_ENCORE+ | R97262 | 1   | F:\VOC-1\031814B\031 | 03/18/2014 22:41   |
| 2628226 | VBLK031814B-1 | MBLK | VOC_ENCORE+ | R97262 | 1   | F:\VOC-1\031814B\031 | 03/18/2014 23:17   |
| 2628227 | VLCS031814B-1 | LCS  | VOC_ENCORE+ | R97262 | 1   | F:\VOC-1\031814B\031 | 03/18/2014 23:53   |
| 2628228 | VLCS031814B-1 | LCSD | VOC_ENCORE+ | R97262 | 1   | F:\VOC-1\031814B\031 | 03/19/2014 0:30    |
| 2628256 | 14030549-001A | SAMP | VOC_5035    | 75166  | 50  | F:\VOC-1\031814B\031 | 03/19/2014 1:06    |
| 2628258 | 14030396-001A | SAMP | VOC_ENCORE  | 73901  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 1:43    |
| 2628259 | 14030396-011A | SAMP | VOC_ENCORE  | 73901  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 2:19    |
| 2628262 | 14030203-021A | SAMP | VOC_5035    | 75016  | 250 | F:\VOC-1\031814B\031 | 03/19/2014 2:56    |
| 2628264 | 14030240-003A | SAMP | VOC_5035    | 75154  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 3:33    |
| 2628266 | 14030203-024A | SAMP | VOC_5035    | 75016  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 4:09    |
| 2628267 | 14030203-042A | SAMP | VOC_5035    | 75016  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 4:45    |
| 2628268 | 14030242-006A | SAMP | VOC_5035    | 75154  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 5:22    |
| 2628269 | 14030242-012A | SAMP | VOC_5035    | 75154  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 5:59    |
| 2628271 | 14030242-015A | SAMP | VOC_5035    | 75154  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 6:35    |
| 2628272 | 14030242-018A | SAMP | VOC_5035    | 75154  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 7:12    |
| 2628273 | 14030242-021A | SAMP | VOC_5035    | 75154  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 7:48    |
| 2628274 | 14030242-023A | SAMP | VOC_5035    | 75154  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 8:24    |
| 2628276 | 14030242-024A | SAMP | VOC_5035    | 75154  | 1   | F:\VOC-1\031814B\031 | 03/19/2014 9:01    |

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97262**

| Sample ID: <b>VBLK031814B-1</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-1_140318B</b> |          |           |             |      |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97262</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2628226</b>        |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane           | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1,2,2-Tetrachloroethane       | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1,2-Trichloroethane           | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1-Dichloroethane              | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1-Dichloroethene              | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,2-Dichloroethane              | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,2-Dichloropropane             | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 2-Butanone                      | ND                      | 0.075                      |                     |                                 |                              |          |           |             |      |          |      |
| 2-Hexanone                      | ND                      | 0.020                      |                     |                                 |                              |          |           |             |      |          |      |
| 4-Methyl-2-pentanone            | ND                      | 0.020                      |                     |                                 |                              |          |           |             |      |          |      |
| Acetone                         | ND                      | 0.075                      |                     |                                 |                              |          |           |             |      |          |      |
| Benzene                         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromodichloromethane            | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromoform                       | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromomethane                    | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| Carbon disulfide                | ND                      | 0.050                      |                     |                                 |                              |          |           |             |      |          |      |
| Carbon tetrachloride            | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chlorobenzene                   | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chloroethane                    | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| Chloroform                      | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chloromethane                   | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| cis-1,2-Dichloroethene          | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| cis-1,3-Dichloropropene         | ND                      | 0.0020                     |                     |                                 |                              |          |           |             |      |          |      |
| Dibromochloromethane            | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Ethylbenzene                    | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Methyl tert-butyl ether         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Methylene chloride              | 0.00184                 | 0.010                      |                     |                                 |                              |          |           |             |      |          | J    |
| Styrene                         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Tetrachloroethene               | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Toluene                         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| trans-1,2-Dichloroethene        | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97262**

|                                 |                         |                            |                     |                                 |                              |          |           |             |      |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VBLK031814B-1</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-1_140318B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97262</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2628226</b>        |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

trans-1,3-Dichloropropene  
Trichloroethene  
Vinyl chloride  
Xylenes, Total

ND  
ND  
ND  
ND

0.0020  
0.0050  
0.0050  
0.015

|                                 |                         |                            |                                 |                       |                              |          |           |             |      |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------------------|-----------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VLCS031814B-1</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b>             | Prep Date:            | Run ID: <b>VOA-1_140318B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97262</b> | TestNo: <b>SW5035/8260</b> | Analysis Date: <b>3/18/2014</b> | SeqNo: <b>2628227</b> |                              |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                        | SPK value                       | SPK Ref Val           | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethane  
1,2-Dichloropropane  
2-Butanone  
2-Hexanone  
4-Methyl-2-pentanone  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene

0.05341  
0.05333  
0.05098  
0.05803  
0.04403  
0.05855  
0.05548  
0.1058  
0.1029  
0.1145  
0.1542  
0.05185  
0.0563  
0.04702  
0.05056  
0.1276  
0.05003  
0.04702  
0.05139  
0.05824  
0.06993  
0.05471

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S

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97262**

| Sample ID: <b>VLCS031814B-1</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENCOR</b> | Units: <b>mg/Kg</b>             | Prep Date:  |      |          |                       | Run ID: <b>VOA-1_140318B</b> |      |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------------------|-------------|------|----------|-----------------------|------------------------------|------|----------|------|
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97262</b> | TestNo: <b>SW5035/8260</b> | Analysis Date: <b>3/18/2014</b> |             |      |          | SeqNo: <b>2628227</b> |                              |      |          |      |
| Analyte                         | Result                  | PQL                        | SPK value                       | SPK Ref Val | %REC | LowLimit | HighLimit             | RPD Ref Val                  | %RPD | RPDLimit | Qual |
| cis-1,3-Dichloropropene         | 0.05623                 | 0.0020                     | 0.05                            | 0           | 112  | 70       | 130                   | 0                            | 0    |          |      |
| Dibromochloromethane            | 0.05029                 | 0.0050                     | 0.05                            | 0           | 101  | 70       | 130                   | 0                            | 0    |          |      |
| Ethylbenzene                    | 0.05278                 | 0.0050                     | 0.05                            | 0           | 106  | 70       | 130                   | 0                            | 0    |          |      |
| Methyl tert-butyl ether         | 0.0598                  | 0.0050                     | 0.05                            | 0           | 120  | 70       | 130                   | 0                            | 0    |          |      |
| Methylene chloride              | 0.05405                 | 0.010                      | 0.05                            | 0.00184     | 104  | 70       | 130                   | 0                            | 0    |          |      |
| Styrene                         | 0.05451                 | 0.0050                     | 0.05                            | 0           | 109  | 70       | 130                   | 0                            | 0    |          |      |
| Tetrachloroethene               | 0.04501                 | 0.0050                     | 0.05                            | 0           | 90   | 70       | 130                   | 0                            | 0    |          |      |
| Toluene                         | 0.05365                 | 0.0050                     | 0.05                            | 0           | 107  | 70       | 130                   | 0                            | 0    |          |      |
| trans-1,2-Dichloroethene        | 0.05099                 | 0.0050                     | 0.05                            | 0           | 102  | 70       | 130                   | 0                            | 0    |          |      |
| trans-1,3-Dichloropropene       | 0.05644                 | 0.0020                     | 0.05                            | 0           | 113  | 70       | 130                   | 0                            | 0    |          |      |
| Trichloroethene                 | 0.04902                 | 0.0050                     | 0.05                            | 0           | 98   | 70       | 130                   | 0                            | 0    |          |      |
| Vinyl chloride                  | 0.06788                 | 0.0050                     | 0.05                            | 0           | 136  | 70       | 130                   | 0                            | 0    |          | S    |
| Xylenes, Total                  | 0.1528                  | 0.015                      | 0.15                            | 0           | 102  | 70       | 130                   | 0                            | 0    |          |      |

| Sample ID: <b>VLCS031814B-1</b> | SampType: <b>LCSD</b>   | TestCode: <b>VOC_ENCOR</b> | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-1_140318B</b> |          |           |             |       |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97262</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628228</b>        |          |           |             |       |          |      |
| Analyte                         | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| 1,1,1-Trichloroethane           | 0.05076                 | 0.0050                     | 0.05                | 0                               | 102                          | 70       | 130       | 0.05341     | 5.09  | 20       |      |
| 1,1,2,2-Tetrachloroethane       | 0.05281                 | 0.0050                     | 0.05                | 0                               | 106                          | 70       | 130       | 0.05333     | 0.980 | 20       |      |
| 1,1,2-Trichloroethane           | 0.05105                 | 0.0050                     | 0.05                | 0                               | 102                          | 70       | 130       | 0.05098     | 0.137 | 20       |      |
| 1,1-Dichloroethane              | 0.05832                 | 0.0050                     | 0.05                | 0                               | 117                          | 70       | 130       | 0.05803     | 0.498 | 20       |      |
| 1,1-Dichloroethene              | 0.04626                 | 0.0050                     | 0.05                | 0                               | 92.5                         | 70       | 130       | 0.04403     | 4.94  | 20       |      |
| 1,2-Dichloroethane              | 0.0571                  | 0.0050                     | 0.05                | 0                               | 114                          | 70       | 130       | 0.05855     | 2.51  | 20       |      |
| 1,2-Dichloropropane             | 0.05533                 | 0.0050                     | 0.05                | 0                               | 111                          | 70       | 130       | 0.05548     | 0.271 | 20       |      |
| 2-Butanone                      | 0.1072                  | 0.075                      | 0.1                 | 0                               | 107                          | 70       | 130       | 0.1058      | 1.32  | 20       |      |
| 2-Hexanone                      | 0.1048                  | 0.020                      | 0.1                 | 0                               | 105                          | 70       | 130       | 0.1029      | 1.79  | 20       |      |
| 4-Methyl-2-pentanone            | 0.1176                  | 0.020                      | 0.1                 | 0                               | 118                          | 70       | 130       | 0.1145      | 2.71  | 20       |      |
| Acetone                         | 0.1539                  | 0.075                      | 0.1                 | 0                               | 154                          | 50       | 150       | 0.1542      | 0.195 | 20       | S    |
| Benzene                         | 0.05134                 | 0.0050                     | 0.05                | 0                               | 103                          | 70       | 130       | 0.05185     | 0.988 | 20       |      |
| Bromodichloromethane            | 0.05641                 | 0.0050                     | 0.05                | 0                               | 113                          | 70       | 130       | 0.0563      | 0.195 | 20       |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97262**

| Sample ID: <b>VLCS031814B-1</b> | SampType: <b>LCSD</b>   | TestCode: <b>VOC_ENC0R</b> | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-1_140318B</b> |          |           |             |        |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|--------|----------|------|
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97262</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628228</b>        |          |           |             |        |          |      |
| Analyte                         | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD   | RPDLimit | Qual |
| Bromoform                       | 0.04706                 | 0.0050                     | 0.05                | 0                               | 94.1                         | 70       | 130       | 0.04702     | 0.0850 | 20       |      |
| Bromomethane                    | 0.05752                 | 0.010                      | 0.05                | 0                               | 115                          | 70       | 130       | 0.05056     | 12.9   | 20       |      |
| Carbon disulfide                | 0.1306                  | 0.050                      | 0.1                 | 0                               | 131                          | 70       | 130       | 0.1276      | 2.30   | 20       | S    |
| Carbon tetrachloride            | 0.05025                 | 0.0050                     | 0.05                | 0                               | 101                          | 70       | 130       | 0.05003     | 0.439  | 20       |      |
| Chlorobenzene                   | 0.04614                 | 0.0050                     | 0.05                | 0                               | 92.3                         | 70       | 130       | 0.04702     | 1.89   | 20       |      |
| Chloroethane                    | 0.06039                 | 0.010                      | 0.05                | 0                               | 121                          | 70       | 130       | 0.05139     | 16.1   | 20       |      |
| Chloroform                      | 0.0584                  | 0.0050                     | 0.05                | 0                               | 117                          | 70       | 130       | 0.05824     | 0.274  | 20       |      |
| Chloromethane                   | 0.07223                 | 0.010                      | 0.05                | 0                               | 144                          | 70       | 130       | 0.06993     | 3.24   | 20       | S    |
| cis-1,2-Dichloroethene          | 0.05422                 | 0.0050                     | 0.05                | 0                               | 108                          | 70       | 130       | 0.05471     | 0.900  | 20       |      |
| cis-1,3-Dichloropropene         | 0.05623                 | 0.0020                     | 0.05                | 0                               | 112                          | 70       | 130       | 0.05623     | 0      | 20       |      |
| Dibromochloromethane            | 0.05096                 | 0.0050                     | 0.05                | 0                               | 102                          | 70       | 130       | 0.05029     | 1.32   | 20       |      |
| Ethylbenzene                    | 0.05185                 | 0.0050                     | 0.05                | 0                               | 104                          | 70       | 130       | 0.05278     | 1.78   | 20       |      |
| Methyl tert-butyl ether         | 0.06151                 | 0.0050                     | 0.05                | 0                               | 123                          | 70       | 130       | 0.0598      | 2.82   | 20       |      |
| Methylene chloride              | 0.05482                 | 0.010                      | 0.05                | 0.00184                         | 106                          | 70       | 130       | 0.05405     | 1.41   | 20       |      |
| Styrene                         | 0.05364                 | 0.0050                     | 0.05                | 0                               | 107                          | 70       | 130       | 0.05451     | 1.61   | 20       |      |
| Tetrachloroethene               | 0.04324                 | 0.0050                     | 0.05                | 0                               | 86.5                         | 70       | 130       | 0.04501     | 4.01   | 20       |      |
| Toluene                         | 0.05267                 | 0.0050                     | 0.05                | 0                               | 105                          | 70       | 130       | 0.05365     | 1.84   | 20       |      |
| trans-1,2-Dichloroethene        | 0.05231                 | 0.0050                     | 0.05                | 0                               | 105                          | 70       | 130       | 0.05099     | 2.56   | 20       |      |
| trans-1,3-Dichloropropene       | 0.05611                 | 0.0020                     | 0.05                | 0                               | 112                          | 70       | 130       | 0.05644     | 0.586  | 20       |      |
| Trichloroethene                 | 0.04893                 | 0.0050                     | 0.05                | 0                               | 97.9                         | 70       | 130       | 0.04902     | 0.184  | 20       |      |
| Vinyl chloride                  | 0.07142                 | 0.0050                     | 0.05                | 0                               | 143                          | 70       | 130       | 0.06788     | 5.08   | 20       | S    |
| Xylenes, Total                  | 0.1503                  | 0.015                      | 0.15                | 0                               | 100                          | 70       | 130       | 0.1528      | 1.62   | 20       |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range



**CLIENT:** Weston Solutions

**Work Order:** 14030549

**Project:** Kankakee Gas ER

**Test No:** SW8270C

**Matrix:** S

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID        | CLPH2D4 | DCBZ12D4 | NO2BZD5 | PH246BR | PH2F | PHD5 | PHEN2F | PHEND14 |
|------------------|---------|----------|---------|---------|------|------|--------|---------|
| 14030549-001B    | 54.1    | 59.6     | 57.8    | 75.2    | 52.5 | 53.4 | 60.9   | 84.5    |
| MB-75181-SVOC    | 70.3    | 79.7     | 74.2    | 88.7    | 68.4 | 67.6 | 77.1   | 87.4    |
| LCS-75181-SVOC   | 58.9    | 64.6     | 63.0    | 78.5    | 56.6 | 59.3 | 69.2   | 80.5    |
| 14030492-008AMS  | 48.1    | 51.8     | 54.0    | 70.4    | 44.3 | 50.3 | 62.7   | 68.4    |
| 14030492-008AMSD | 69.2    | 74.7     | 77.4    | 82.2    | 65.3 | 69.6 | 81.0   | 77.5    |

| Acronym  | Surrogate                | QC Limits |
|----------|--------------------------|-----------|
| CLPH2D4  | = 2-Chlorophenol-d4      | 20-130    |
| DCBZ12D4 | = 1,2-Dichlorobenzene-d4 | 20-130    |
| NO2BZD5  | = Nitrobenzene-d5        | 23-120    |
| PH246BR  | = 2,4,6-Tribromophenol   | 19-122    |
| PH2F     | = 2-Fluorophenol         | 25-121    |
| PHD5     | = Phenol-d5              | 24-113    |
| PHEN2F   | = 2-Fluorobiphenyl       | 30-115    |
| PHEND14  | = 4-Terphenyl-d14        | 18-137    |

**\* Surrogate recovery outside acceptance limit**

Prep Start Date: **3/19/2014 9:48:32 A**

Prep End Date:

Prep Factor Units:

 Prep Batch **75181**

 Prep Code: **3550\_SVOC**

 Technician: **ADM**

mL / Kg

| Sample ID        | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor  | PrepStart | PrepEnd   |
|------------------|--------|----|---------|-----------|-----------|---------|---------|-----------|-----------|
| MB-75181-SVOC    |        |    | 0.03    | 0         | 0         | 1       | 33.333  | 3/19/2014 | 3/19/2014 |
| LCS-75181-SVOC   |        |    | 0.03    | 0         | 0         | 1       | 33.333  | 3/19/2014 | 3/19/2014 |
| 14030492-007A    | Soil   |    | 0.03017 | 0         | 0         | 10      | 331.455 | 3/19/2014 | 3/19/2014 |
| 14030492-008A    | Soil   |    | 0.03006 | 0         | 0         | 1       | 33.267  | 3/19/2014 | 3/19/2014 |
| 14030492-009B    | Soil   |    | 0.03007 | 0         | 0         | 1       | 33.256  | 3/19/2014 | 3/19/2014 |
| 14030492-010B    | Soil   |    | 0.0301  | 0         | 0         | 1       | 33.223  | 3/19/2014 | 3/19/2014 |
| 14030492-011A    | Soil   |    | 0.03013 | 0         | 0         | 1       | 33.190  | 3/19/2014 | 3/19/2014 |
| 14030492-012A    | Soil   |    | 0.03002 | 0         | 0         | 1       | 33.311  | 3/19/2014 | 3/19/2014 |
| 14030549-001B    | Soil   |    | 0.03015 | 0         | 0         | 1       | 33.167  | 3/19/2014 | 3/19/2014 |
| 14030492-008AMS  | Soil   |    | 0.03004 | 0         | 0         | 1       | 33.289  | 3/19/2014 | 3/19/2014 |
| 14030492-008AMSD | Soil   |    | 0.03004 | 0         | 0         | 1       | 33.289  | 3/19/2014 | 3/19/2014 |
| 14030552-001A    | Soil   |    | 0.03019 | 0         | 0         | 1       | 33.124  | 3/19/2014 | 3/19/2014 |

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75181

|                          |                 |                     |              |                          |                        |          |           |             |      |          |      |
|--------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75181-SVOC | SampType: MBLK  | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: SVOC-5_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ          | Batch ID: 75181 | TestNo: SW8270C     |              | Analysis Date: 3/19/2014 | SeqNo: 2628849         |          |           |             |      |          |      |
| Analyte                  | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                        |    |       |  |  |  |  |  |  |  |  |  |
|------------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Acenaphthene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Acenaphthylene         | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Anthracene             | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benz(a)anthracene      | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(a)pyrene         | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(b)fluoranthene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(g,h,i)perylene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(k)fluoranthene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Chrysene               | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Dibenz(a,h)anthracene  | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Fluoranthene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Fluorene               | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Indeno(1,2,3-cd)pyrene | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Naphthalene            | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Phenanthrene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Pyrene                 | ND | 0.033 |  |  |  |  |  |  |  |  |  |

|                           |                 |                     |              |                          |                        |          |           |             |      |          |      |
|---------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: LCS-75181-SVOC | SampType: LCS   | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: SVOC-5_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ           | Batch ID: 75181 | TestNo: SW8270C     |              | Analysis Date: 3/19/2014 | SeqNo: 2628859         |          |           |             |      |          |      |
| Analyte                   | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |       |       |       |   |      |    |     |   |   |  |  |
|---------------------------|-------|-------|-------|---|------|----|-----|---|---|--|--|
| Acenaphthene              | 1.302 | 0.033 | 1.667 | 0 | 78.1 | 37 | 134 | 0 | 0 |  |  |
| 4-Chloro-3-methylphenol   | 2.306 | 0.33  | 3.333 | 0 | 69.2 | 29 | 134 | 0 | 0 |  |  |
| 2-Chlorophenol            | 1.925 | 0.17  | 3.333 | 0 | 57.8 | 29 | 105 | 0 | 0 |  |  |
| 1,4-Dichlorobenzene       | 1.044 | 0.17  | 1.667 | 0 | 62.6 | 26 | 111 | 0 | 0 |  |  |
| 2,4-Dinitrotoluene        | 1.264 | 0.033 | 1.667 | 0 | 75.8 | 46 | 125 | 0 | 0 |  |  |
| 4-Nitrophenol             | 2.711 | 0.33  | 3.333 | 0 | 81.3 | 12 | 146 | 0 | 0 |  |  |
| N-Nitrosodi-n-propylamine | 1.059 | 0.033 | 1.667 | 0 | 63.5 | 29 | 109 | 0 | 0 |  |  |
| Pentachlorophenol         | 2.459 | 0.067 | 3.333 | 0 | 73.8 | 10 | 192 | 0 | 0 |  |  |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75181

|                                  |                        |                            |                     |                                 |                               |          |           |             |      |          |      |
|----------------------------------|------------------------|----------------------------|---------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-75181-SVOC</b> | SampType: <b>LCS</b>   | TestCode: <b>SVOC_SOIL</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>SVOC-5_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>           | Batch ID: <b>75181</b> | TestNo: <b>SW8270C</b>     |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628859</b>         |          |           |             |      |          |      |
| Analyte                          | Result                 | PQL                        | SPK value           | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                        |       |       |       |   |      |    |     |   |   |  |  |
|------------------------|-------|-------|-------|---|------|----|-----|---|---|--|--|
| Phenol                 | 1.983 | 0.17  | 3.333 | 0 | 59.5 | 27 | 104 | 0 | 0 |  |  |
| Pyrene                 | 1.404 | 0.033 | 1.667 | 0 | 84.2 | 42 | 148 | 0 | 0 |  |  |
| 1,2,4-Trichlorobenzene | 1.085 | 0.17  | 1.667 | 0 | 65.1 | 55 | 106 | 0 | 0 |  |  |

|                            |                 |                     |              |                          |                        |          |           |             |      |          |      |
|----------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030492-008AMS | SampType: MS    | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: SVOC-5_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ            | Batch ID: 75181 | TestNo: SW8270C     |              | Analysis Date: 3/19/2014 | SeqNo: 2628888         |          |           |             |      |          |      |
| Analyte                    | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |        |       |       |   |      |    |     |   |   |  |  |
|---------------------------|--------|-------|-------|---|------|----|-----|---|---|--|--|
| Acenaphthene              | 1.203  | 0.033 | 1.665 | 0 | 72.2 | 24 | 139 | 0 | 0 |  |  |
| 4-Chloro-3-methylphenol   | 2.165  | 0.33  | 3.329 | 0 | 65   | 28 | 121 | 0 | 0 |  |  |
| 2-Chlorophenol            | 1.64   | 0.17  | 3.329 | 0 | 49.3 | 21 | 102 | 0 | 0 |  |  |
| 1,4-Dichlorobenzene       | 0.8652 | 0.17  | 1.665 | 0 | 52   | 27 | 95  | 0 | 0 |  |  |
| 2,4-Dinitrotoluene        | 1.151  | 0.033 | 1.665 | 0 | 69.1 | 32 | 127 | 0 | 0 |  |  |
| 4-Nitrophenol             | 2.374  | 0.33  | 3.329 | 0 | 71.3 | 10 | 156 | 0 | 0 |  |  |
| N-Nitrosodi-n-propylamine | 0.9258 | 0.033 | 1.665 | 0 | 55.6 | 16 | 122 | 0 | 0 |  |  |
| Pentachlorophenol         | 2.042  | 0.067 | 3.329 | 0 | 61.4 | 10 | 204 | 0 | 0 |  |  |
| Phenol                    | 1.694  | 0.17  | 3.329 | 0 | 50.9 | 20 | 103 | 0 | 0 |  |  |
| Pyrene                    | 1.231  | 0.033 | 1.665 | 0 | 74   | 10 | 184 | 0 | 0 |  |  |
| 1,2,4-Trichlorobenzene    | 0.9344 | 0.17  | 1.665 | 0 | 56.1 | 55 | 106 | 0 | 0 |  |  |

|                             |                 |                     |              |                          |                        |          |           |             |      |          |      |
|-----------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030492-008AMSD | SampType: MSD   | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: SVOC-5_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ             | Batch ID: 75181 | TestNo: SW8270C     |              | Analysis Date: 3/19/2014 | SeqNo: 2628945         |          |           |             |      |          |      |
| Analyte                     | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |       |       |       |   |      |    |     |        |      |    |  |
|---------------------------|-------|-------|-------|---|------|----|-----|--------|------|----|--|
| Acenaphthene              | 1.447 | 0.033 | 1.665 | 0 | 86.9 | 24 | 139 | 1.203  | 18.4 | 57 |  |
| 4-Chloro-3-methylphenol   | 2.619 | 0.33  | 3.329 | 0 | 78.7 | 28 | 121 | 2.165  | 19.0 | 88 |  |
| 2-Chlorophenol            | 2.328 | 0.17  | 3.329 | 0 | 69.9 | 21 | 102 | 1.64   | 34.7 | 49 |  |
| 1,4-Dichlorobenzene       | 1.244 | 0.17  | 1.665 | 0 | 74.7 | 27 | 95  | 0.8652 | 35.9 | 43 |  |
| 2,4-Dinitrotoluene        | 1.321 | 0.033 | 1.665 | 0 | 79.3 | 32 | 127 | 1.151  | 13.7 | 37 |  |
| 4-Nitrophenol             | 2.667 | 0.33  | 3.329 | 0 | 80.1 | 10 | 156 | 2.374  | 11.6 | 56 |  |
| N-Nitrosodi-n-propylamine | 1.263 | 0.033 | 1.665 | 0 | 75.8 | 16 | 122 | 0.9258 | 30.8 | 47 |  |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75181

|                             |                 |                     |              |                          |                        |          |           |             |      |          |      |
|-----------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030492-008AMSD | SampType: MSD   | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: SVOC-5_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ             | Batch ID: 75181 | TestNo: SW8270C     |              | Analysis Date: 3/19/2014 | SeqNo: 2628945         |          |           |             |      |          |      |
| Analyte                     | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Pentachlorophenol           | 2.343           | 0.067               | 3.329        | 0                        | 70.4                   | 10       | 204       | 2.042       | 13.7 | 47       |      |
| Phenol                      | 2.312           | 0.17                | 3.329        | 0                        | 69.5                   | 20       | 103       | 1.694       | 30.8 | 66       |      |
| Pyrene                      | 1.37            | 0.033               | 1.665        | 0                        | 82.3                   | 10       | 184       | 1.231       | 10.6 | 51       |      |
| 1,2,4-Trichlorobenzene      | 1.318           | 0.17                | 1.665        | 0                        | 79.2                   | 55       | 106       | 0.9344      | 34.1 | 23       | R    |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

Prep Start Date: **3/19/2014 8:40:40 A**

Prep End Date:

Prep Factor Units:

 Prep Batch **75178**

 Prep Code: **3580\_TPH**

 Technician: **PEM**

mL / Kg

| Sample ID        | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor   | PrepStart | PrepEnd   |
|------------------|--------|----|---------|-----------|-----------|---------|----------|-----------|-----------|
| MB-75178-TPH     |        |    | 0.005   | 0         | 0         | 5       | 1000.000 | 3/19/2014 | 3/19/2014 |
| LCS-75178-TPH    |        |    | 0.005   | 0         | 0         | 5       | 1000.000 | 3/19/2014 | 3/19/2014 |
| 14030549-001B    | Soil   |    | 0.00512 | 0         | 0         | 5       | 976.562  | 3/19/2014 | 3/19/2014 |
| 14030549-001BMS  | Soil   |    | 0.00512 | 0         | 0         | 5       | 976.562  | 3/19/2014 | 3/19/2014 |
| 14030549-001BMSD | Soil   |    | 0.00513 | 0         | 0         | 5       | 974.659  | 3/19/2014 | 3/19/2014 |

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75178

|                         |                 |                 |              |                          |                          |          |           |             |      |          |      |
|-------------------------|-----------------|-----------------|--------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75178-TPH | SampType: MBLK  | TestCode: TPH_S | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: GC-FID-2_140319A |          |           |             |      |          |      |
| Client ID: ZZZZ         | Batch ID: 75178 | TestNo: SW8015M |              | Analysis Date: 3/19/2014 | SeqNo: 2628559           |          |           |             |      |          |      |
| Analyte                 | Result          | PQL             | SPK value    | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |  |  |  |  |  |  |  |  |   |
|-----------|-------|----|--|--|--|--|--|--|--|--|---|
| TPH (GRO) | ND    | 20 |  |  |  |  |  |  |  |  |   |
| TPH (DRO) | 6.478 | 20 |  |  |  |  |  |  |  |  | J |
| TPH (ERO) | ND    | 20 |  |  |  |  |  |  |  |  | * |

|                                 |                        |                        |                     |                                 |                                 |          |           |             |      |          |      |
|---------------------------------|------------------------|------------------------|---------------------|---------------------------------|---------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-75178-TPH</b> | SampType: <b>LCS</b>   | TestCode: <b>TPH_S</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>GC-FID-2_140319A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>75178</b> | TestNo: <b>SW8015M</b> |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628560</b>           |          |           |             |      |          |      |
| Analyte                         | Result                 | PQL                    | SPK value           | SPK Ref Val                     | %REC                            | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |     |       |      |    |     |   |   |  |   |
|-----------|-------|----|-----|-------|------|----|-----|---|---|--|---|
| TPH (GRO) | 93.6  | 20 | 200 | 0     | 46.8 | 30 | 150 | 0 | 0 |  |   |
| TPH (DRO) | 103.8 | 20 | 200 | 6.478 | 48.7 | 30 | 150 | 0 | 0 |  |   |
| TPH (ERO) | 172.8 | 20 | 200 | 0     | 86.4 | 30 | 150 | 0 | 0 |  | * |

|                            |                 |                 |                  |                          |                          |          |           |             |      |          |      |
|----------------------------|-----------------|-----------------|------------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030549-001BMS | SampType: MS    | TestCode: TPH_S | Units: mg/Kg-dry | Prep Date: 3/19/2014     | Run ID: GC-FID-2_140319A |          |           |             |      |          |      |
| Client ID: BKG-SWS-031714  | Batch ID: 75178 | TestNo: SW8015M |                  | Analysis Date: 3/19/2014 | SeqNo: 2628674           |          |           |             |      |          |      |
| Analyte                    | Result          | PQL             | SPK value        | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |     |       |      |    |     |   |   |  |   |
|-----------|-------|----|-----|-------|------|----|-----|---|---|--|---|
| TPH (GRO) | 120.2 | 23 | 225 | 5.091 | 51.1 | 30 | 150 | 0 | 0 |  |   |
| TPH (DRO) | 132.8 | 23 | 225 | 8.493 | 55.2 | 30 | 150 | 0 | 0 |  |   |
| TPH (ERO) | 232.5 | 23 | 225 | 0     | 103  | 30 | 150 | 0 | 0 |  | * |

|                             |                 |                 |                  |                          |                          |          |           |             |      |          |      |
|-----------------------------|-----------------|-----------------|------------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030549-001BMSD | SampType: MSD   | TestCode: TPH_S | Units: mg/Kg-dry | Prep Date: 3/19/2014     | Run ID: GC-FID-2_140319A |          |           |             |      |          |      |
| Client ID: BKG-SWS-031714   | Batch ID: 75178 | TestNo: SW8015M |                  | Analysis Date: 3/19/2014 | SeqNo: 2628689           |          |           |             |      |          |      |
| Analyte                     | Result          | PQL             | SPK value        | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |       |       |      |    |     |       |      |    |   |
|-----------|-------|----|-------|-------|------|----|-----|-------|------|----|---|
| TPH (GRO) | 123.8 | 22 | 224.6 | 5.091 | 52.9 | 30 | 150 | 120.2 | 2.99 | 25 |   |
| TPH (DRO) | 135.1 | 22 | 224.6 | 8.493 | 56.4 | 30 | 150 | 132.8 | 1.75 | 25 |   |
| TPH (ERO) | 228.5 | 22 | 224.6 | 0     | 102  | 30 | 150 | 232.5 | 1.74 | 25 | * |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030549  
**Project:** Kankakee Gas ER

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97268**

|                                 |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|---------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMMBK 3/18/14</b> | SampType: <b>MBLK</b>   | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/18/2014</b>     | Run ID: <b>BALANCE_140318B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97268</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628355</b>          |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |    |       |  |  |  |  |  |  |  |  |   |
|------------------|----|-------|--|--|--|--|--|--|--|--|---|
| Percent Moisture | ND | 0.200 |  |  |  |  |  |  |  |  | * |
|------------------|----|-------|--|--|--|--|--|--|--|--|---|

|                                   |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|-----------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMLCS-S 3/18/14</b> | SampType: <b>LCS</b>    | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/18/2014</b>     | Run ID: <b>BALANCE_140318B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>            | Batch ID: <b>R97268</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628356</b>          |          |           |             |      |          |      |
| Analyte                           | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |      |       |   |   |    |    |     |   |   |  |   |
|------------------|------|-------|---|---|----|----|-----|---|---|--|---|
| Percent Moisture | 4.55 | 0.200 | 5 | 0 | 91 | 80 | 120 | 0 | 0 |  | * |
|------------------|------|-------|---|---|----|----|-----|---|---|--|---|

|                                   |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|-----------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMLCS-W 3/18/14</b> | SampType: <b>LCS</b>    | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/18/2014</b>     | Run ID: <b>BALANCE_140318B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>            | Batch ID: <b>R97268</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628357</b>          |          |           |             |      |          |      |
| Analyte                           | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |      |       |      |   |     |    |     |   |   |  |   |
|------------------|------|-------|------|---|-----|----|-----|---|---|--|---|
| Percent Moisture | 99.8 | 0.200 | 99.8 | 0 | 100 | 80 | 120 | 0 | 0 |  | * |
|------------------|------|-------|------|---|-----|----|-----|---|---|--|---|

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range



**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 [STATinfo@STATAnalysis.com](mailto:STATinfo@STATAnalysis.com)

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

March 20, 2014

Weston Solutions  
20 North Wacker Drive  
Chicago, IL 60606

Telephone: (312) 424-3339  
Fax: (312) 424-3330

Analytical Report for STAT Workorder: 14030589 Revision 0

RE: 20405.012.005.2306.00, Buckeye Kankakee Spill

Dear Lisa Graczyk:

STAT Analysis received 4 samples for the referenced project on 3/19/2014 2:30:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Craig Chawla  
Project Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

---

**Client:** Weston Solutions**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill**Lab Order:** 14030589**Work Order Sample Summary**

---

| Lab Sample ID | Client Sample ID | Tag Number | Collection Date      | Date Received |
|---------------|------------------|------------|----------------------|---------------|
| 14030589-001A | Pipex 2-031914   |            | 3/19/2014 2:00:00 PM | 3/19/2014     |
| 14030589-001B | Pipex 2-031914   |            | 3/19/2014 2:00:00 PM | 3/19/2014     |
| 14030589-002A | Pipex 7-031914   |            | 3/19/2014 2:25:00 PM | 3/19/2014     |
| 14030589-002B | Pipex 7-031914   |            | 3/19/2014 2:25:00 PM | 3/19/2014     |
| 14030589-003A | Pipex 10-031914  |            | 3/19/2014 2:40:00 PM | 3/19/2014     |
| 14030589-003B | Pipex 10-031914  |            | 3/19/2014 2:40:00 PM | 3/19/2014     |
| 14030589-004A | BKG-SW6-031714   |            | 3/17/2014 4:30:00 PM | 3/19/2014     |
| 14030589-004B | BKG-SW6-031714   |            | 3/17/2014 4:30:00 PM | 3/19/2014     |

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**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: March 20, 2014

Print Date: March 20, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: Pipex 2-031914

Lab Order: 14030589

Tag Number:

Project: 20405.012.005.2306.00, Buckeye Kankakee Spill

Collection Date: 3/19/2014 2:00:00 PM

Lab ID: 14030589-001A

Matrix: Soil

| Analyses                                   | Result | RL                          | Qualifier | Units              | DF | Date Analyzed |
|--|--------|-----------------------------|-----------|--------------------|----|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> |        |                             |           |                    |    |               |
| <b>SW5035/8260B</b>                        |        | <b>Prep Date: 3/19/2014</b> |           | <b>Analyst: PS</b> |    |               |
| Acetone                                    | ND     | 0.061                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Benzene                                    | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Bromodichloromethane                       | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Bromoform                                  | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Bromomethane                               | ND     | 0.0081                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 2-Butanone                                 | ND     | 0.061                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Carbon disulfide                           | ND     | 0.041                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Carbon tetrachloride                       | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Chlorobenzene                              | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Chloroethane                               | ND     | 0.0081                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Chloroform                                 | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Chloromethane                              | ND     | 0.0081                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Dibromochloromethane                       | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1-Dichloroethane                         | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,2-Dichloroethane                         | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1-Dichloroethene                         | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| cis-1,2-Dichloroethene                     | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| trans-1,2-Dichloroethene                   | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,2-Dichloropropane                        | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| cis-1,3-Dichloropropene                    | ND     | 0.0017                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| trans-1,3-Dichloropropene                  | ND     | 0.0017                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Ethylbenzene                               | 0.019  | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 2-Hexanone                                 | ND     | 0.017                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 4-Methyl-2-pentanone                       | ND     | 0.017                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Methylene chloride                         | ND     | 0.0081                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Methyl tert-butyl ether                    | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Styrene                                    | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Tetrachloroethene                          | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Toluene                                    | 0.029  | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1,1-Trichloroethane                      | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1,2-Trichloroethane                      | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Trichloroethene                            | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Vinyl chloride                             | ND     | 0.0041                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Xylenes, Total                             | 0.11   | 0.012                       |           | mg/Kg-dry          | 1  | 3/20/2014     |

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

**STAT Analysis Corporation**

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: March 20, 2014

Print Date: March 20, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: Pipex 2-031914

Lab Order: 14030589

Tag Number:

Project: 20405.012.005.2306.00, Buckeye Kankakee Spill

Collection Date: 3/19/2014 2:00:00 PM

Lab ID: 14030589-001B

Matrix: Soil

| Analyses  | Result                   | RL    | Qualifier | Units     | DF | Date Analyzed                     |
|---|--------------------------|-------|-----------|-----------|----|-----------------------------------|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |       |           |           |    | Prep Date: 3/20/2014 Analyst: MDM |
| TPH (GRO)   | ND                       | 23    |           | mg/Kg-dry | 1  | 3/20/2014                         |
| TPH (DRO)   | ND                       | 23    |           | mg/Kg-dry | 1  | 3/20/2014                         |
| TPH (ERO)   | ND                       | 23    | *         | mg/Kg-dry | 1  | 3/20/2014                         |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |       |           |           |    | Prep Date: 3/20/2014 Analyst: DM  |
| Acenaphthene                                      | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Acenaphthylene                                    | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Anthracene  | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benz(a)anthracene                                 | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benzo(a)pyrene                                    | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benzo(b)fluoranthene                              | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benzo(g,h,i)perylene                              | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benzo(k)fluoranthene                              | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Chrysene  | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Dibenz(a,h)anthracene                             | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Fluoranthene                                      | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Fluorene  | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Naphthalene                                       | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Phenanthrene                                      | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Pyrene  | ND                       | 0.039 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| <b>Percent Moisture</b>                           | <b>D2974</b>             |       |           |           |    | Prep Date: 3/19/2014 Analyst: VA  |
| Percent Moisture                                  | 15.2                     | 0.2   | *         | wt%       | 1  | 3/20/2014                         |

**Qualifiers:**

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HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: March 20, 2014

Print Date: March 20, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: Pipex 7-031914

Lab Order: 14030589

Tag Number:

Project: 20405.012.005.2306.00, Buckeye Kankakee Spill

Collection Date: 3/19/2014 2:25:00 PM

Lab ID: 14030589-002A

Matrix: Soil

| Analyses                                   | Result              | RL   | Qualifier | Units                       | DF  | Date Analyzed      |
|--|---------------------|------|-----------|-----------------------------|-----|--------------------|
| <b>Volatile Organic Compounds by GC/MS</b> |                     |      |           |                             |     |                    |
|  | <b>SW5035/8260B</b> |      |           | Prep Date: <b>3/19/2014</b> |     | Analyst: <b>PS</b> |
| Acetone                                    | ND                  | 4.5  |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Benzene                                    | 2                   | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Bromodichloromethane                       | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Bromoform                                  | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Bromomethane                               | ND                  | 0.59 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 2-Butanone                                 | ND                  | 4.5  |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Carbon disulfide                           | ND                  | 2.9  |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Carbon tetrachloride                       | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Chlorobenzene                              | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Chloroethane                               | ND                  | 0.59 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Chloroform                                 | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Chloromethane                              | ND                  | 0.59 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Dibromochloromethane                       | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 1,1-Dichloroethane                         | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 1,2-Dichloroethane                         | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 1,1-Dichloroethene                         | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| cis-1,2-Dichloroethene                     | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| trans-1,2-Dichloroethene                   | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 1,2-Dichloropropane                        | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| cis-1,3-Dichloropropene                    | ND                  | 0.12 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| trans-1,3-Dichloropropene                  | ND                  | 0.12 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Ethylbenzene                               | 10                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 2-Hexanone                                 | ND                  | 1.2  |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 4-Methyl-2-pentanone                       | ND                  | 1.2  |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Methylene chloride                         | ND                  | 0.59 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Methyl tert-butyl ether                    | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Styrene                                    | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 1,1,2,2-Tetrachloroethane                  | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Tetrachloroethene                          | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Toluene                                    | 31                  | 2.9  |           | mg/Kg-dry                   | 500 | 3/20/2014          |
| 1,1,1-Trichloroethane                      | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| 1,1,2-Trichloroethane                      | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Trichloroethene                            | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Vinyl chloride                             | ND                  | 0.29 |           | mg/Kg-dry                   | 50  | 3/20/2014          |
| Xylenes, Total                             | 45                  | 8.8  |           | mg/Kg-dry                   | 500 | 3/20/2014          |

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Report Date: March 20, 2014

Print Date: March 20, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: Pipex 7-031914

Lab Order: 14030589

Tag Number:

Project: 20405.012.005.2306.00, Buckeye Kankakee Spill

Collection Date: 3/19/2014 2:25:00 PM

Lab ID: 14030589-002B

Matrix: Soil

| Analyses  | Result                   | RL   | Qualifier | Units     | DF | Date Analyzed                     |
|---|--------------------------|------|-----------|-----------|----|-----------------------------------|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |      |           |           |    | Prep Date: 3/20/2014 Analyst: MDM |
| TPH (GRO)   | ND                       | 23   |           | mg/Kg-dry | 1  | 3/20/2014                         |
| TPH (DRO)   | ND                       | 23   |           | mg/Kg-dry | 1  | 3/20/2014                         |
| TPH (ERO)   | ND                       | 23   | *         | mg/Kg-dry | 1  | 3/20/2014                         |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |      |           |           |    | Prep Date: 3/20/2014 Analyst: DM  |
| Acenaphthene                                      | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Acenaphthylene                                    | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Anthracene  | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benz(a)anthracene                                 | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benzo(a)pyrene                                    | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benzo(b)fluoranthene                              | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benzo(g,h,i)perylene                              | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Benzo(k)fluoranthene                              | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Chrysene  | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Dibenz(a,h)anthracene                             | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Fluoranthene                                      | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Fluorene  | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Naphthalene                                       | 0.05                     | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Phenanthrene                                      | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| Pyrene  | ND                       | 0.04 |           | mg/Kg-dry | 1  | 3/20/2014                         |
| <b>Percent Moisture</b>                           | <b>D2974</b>             |      |           |           |    | Prep Date: 3/19/2014 Analyst: VA  |
| Percent Moisture                                  | 17.4                     | 0.2  | *         | wt%       | 1  | 3/20/2014                         |

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Report Date: March 20, 2014

Print Date: March 20, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: Pipex 10-031914

Lab Order: 14030589

Tag Number:

Project: 20405.012.005.2306.00, Buckeye Kankakee Spill

Collection Date: 3/19/2014 2:40:00 PM

Lab ID: 14030589-003A

Matrix: Soil

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

**Volatile Organic Compounds by GC/MS**

SW5035/8260B

Prep Date: 3/19/2014

Analyst: PS

|                           |    |        |  |           |   |           |
|---------------------------|----|--------|--|-----------|---|-----------|
| Acetone                   | ND | 0.08   |  | mg/Kg-dry | 1 | 3/20/2014 |
| Benzene                   | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Bromodichloromethane      | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Bromoform                 | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Bromomethane              | ND | 0.011  |  | mg/Kg-dry | 1 | 3/20/2014 |
| 2-Butanone                | ND | 0.08   |  | mg/Kg-dry | 1 | 3/20/2014 |
| Carbon disulfide          | ND | 0.053  |  | mg/Kg-dry | 1 | 3/20/2014 |
| Carbon tetrachloride      | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Chlorobenzene             | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Chloroethane              | ND | 0.011  |  | mg/Kg-dry | 1 | 3/20/2014 |
| Chloroform                | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Chloromethane             | ND | 0.011  |  | mg/Kg-dry | 1 | 3/20/2014 |
| Dibromochloromethane      | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| 1,1-Dichloroethane        | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| 1,2-Dichloroethane        | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| 1,1-Dichloroethene        | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| cis-1,2-Dichloroethene    | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| trans-1,2-Dichloroethene  | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| 1,2-Dichloropropane       | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| cis-1,3-Dichloropropene   | ND | 0.0021 |  | mg/Kg-dry | 1 | 3/20/2014 |
| trans-1,3-Dichloropropene | ND | 0.0021 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Ethylbenzene              | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| 2-Hexanone                | ND | 0.021  |  | mg/Kg-dry | 1 | 3/20/2014 |
| 4-Methyl-2-pentanone      | ND | 0.021  |  | mg/Kg-dry | 1 | 3/20/2014 |
| Methylene chloride        | ND | 0.011  |  | mg/Kg-dry | 1 | 3/20/2014 |
| Methyl tert-butyl ether   | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Styrene                   | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| 1,1,2,2-Tetrachloroethane | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Tetrachloroethene         | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Toluene                   | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| 1,1,1-Trichloroethane     | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| 1,1,2-Trichloroethane     | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Trichloroethene           | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Vinyl chloride            | ND | 0.0053 |  | mg/Kg-dry | 1 | 3/20/2014 |
| Xylenes, Total            | ND | 0.016  |  | mg/Kg-dry | 1 | 3/20/2014 |

**Qualifiers:**

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H - Holding time exceeded

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Report Date: March 20, 2014

Print Date: March 20, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: Pipex 10-031914

Lab Order: 14030589

Tag Number:

Project: 20405.012.005.2306.00, Buckeye Kankakee Spill

Collection Date: 3/19/2014 2:40:00 PM

Lab ID: 14030589-003B

Matrix: Soil

| Analyses  | Result                   | RL    | Qualifier | Units     | DF | Date Analyzed                                   |
|---|--------------------------|-------|-----------|-----------|----|---|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |       |           |           |    | Prep Date: <b>3/20/2014</b> Analyst: <b>MDM</b> |
| TPH (GRO)   | ND                       | 24    |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| TPH (DRO)   | ND                       | 24    |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| TPH (ERO)   | ND                       | 24    | *         | mg/Kg-dry | 1  | 3/20/2014                                       |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |       |           |           |    | Prep Date: <b>3/20/2014</b> Analyst: <b>DM</b>  |
| Acenaphthene                                      | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Acenaphthylene                                    | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Anthracene  | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benz(a)anthracene                                 | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benzo(a)pyrene                                    | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benzo(b)fluoranthene                              | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benzo(g,h,i)perylene                              | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benzo(k)fluoranthene                              | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Chrysene  | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Dibenz(a,h)anthracene                             | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Fluoranthene                                      | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Fluorene  | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Naphthalene                                       | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Phenanthrene                                      | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Pyrene  | ND                       | 0.041 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| <b>Percent Moisture</b>                           | <b>D2974</b>             |       |           |           |    | Prep Date: <b>3/19/2014</b> Analyst: <b>VA</b>  |
| Percent Moisture                                  | 20.9                     | 0.2   | *         | wt%       | 1  | 3/20/2014                                       |

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Report Date: March 20, 2014

Print Date: March 20, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SW6-031714

Lab Order: 14030589

Tag Number:

Project: 20405.012.005.2306.00, Buckeye Kankakee Spill

Collection Date: 3/17/2014 4:30:00 PM

Lab ID: 14030589-004A

Matrix: Soil

| Analyses                                   | Result | RL                          | Qualifier | Units              | DF | Date Analyzed |
|--|--------|-----------------------------|-----------|--------------------|----|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> |        |                             |           |                    |    |               |
| <b>SW5035/8260B</b>                        |        | <b>Prep Date: 3/19/2014</b> |           | <b>Analyst: PS</b> |    |               |
| Acetone                                    | ND     | 0.097                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Benzene                                    | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Bromodichloromethane                       | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Bromoform                                  | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Bromomethane                               | ND     | 0.013                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 2-Butanone                                 | ND     | 0.097                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Carbon disulfide                           | ND     | 0.064                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Carbon tetrachloride                       | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Chlorobenzene                              | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Chloroethane                               | ND     | 0.013                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Chloroform                                 | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Chloromethane                              | ND     | 0.013                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Dibromochloromethane                       | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1-Dichloroethane                         | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,2-Dichloroethane                         | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1-Dichloroethene                         | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| cis-1,2-Dichloroethene                     | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| trans-1,2-Dichloroethene                   | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,2-Dichloropropane                        | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| cis-1,3-Dichloropropene                    | ND     | 0.0026                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| trans-1,3-Dichloropropene                  | ND     | 0.0026                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Ethylbenzene                               | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 2-Hexanone                                 | ND     | 0.026                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 4-Methyl-2-pentanone                       | ND     | 0.026                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Methylene chloride                         | ND     | 0.013                       |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Methyl tert-butyl ether                    | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Styrene                                    | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Tetrachloroethene                          | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Toluene                                    | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1,1-Trichloroethane                      | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| 1,1,2-Trichloroethane                      | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Trichloroethene                            | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Vinyl chloride                             | ND     | 0.0064                      |           | mg/Kg-dry          | 1  | 3/20/2014     |
| Xylenes, Total                             | ND     | 0.019                       |           | mg/Kg-dry          | 1  | 3/20/2014     |

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Report Date: March 20, 2014

Print Date: March 20, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-SW6-031714

Lab Order: 14030589

Tag Number:

Project: 20405.012.005.2306.00, Buckeye Kankakee Spill

Collection Date: 3/17/2014 4:30:00 PM

Lab ID: 14030589-004B

Matrix: Soil

| Analyses  | Result                   | RL    | Qualifier | Units     | DF | Date Analyzed                                   |
|---|--------------------------|-------|-----------|-----------|----|---|
| <b>Total Petroleum Hydrocarbons</b>               | <b>SW8015M (SW3580A)</b> |       |           |           |    | Prep Date: <b>3/20/2014</b> Analyst: <b>MDM</b> |
| TPH (GRO)   | ND                       | 26    |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| TPH (DRO)   | ND                       | 26    |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| TPH (ERO)   | ND                       | 26    | *         | mg/Kg-dry | 1  | 3/20/2014                                       |
| <b>Polynuclear Aromatic Hydrocarbons by GC/MS</b> | <b>SW8270C (SW3550B)</b> |       |           |           |    | Prep Date: <b>3/20/2014</b> Analyst: <b>DM</b>  |
| Acenaphthene                                      | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Acenaphthylene                                    | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Anthracene  | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benz(a)anthracene                                 | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benzo(a)pyrene                                    | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benzo(b)fluoranthene                              | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benzo(g,h,i)perylene                              | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Benzo(k)fluoranthene                              | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Chrysene  | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Dibenz(a,h)anthracene                             | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Fluoranthene                                      | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Fluorene  | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Indeno(1,2,3-cd)pyrene                            | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Naphthalene                                       | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Phenanthrene                                      | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| Pyrene  | ND                       | 0.044 |           | mg/Kg-dry | 1  | 3/20/2014                                       |
| <b>Percent Moisture</b>                           | <b>D2974</b>             |       |           |           |    | Prep Date: <b>3/19/2014</b> Analyst: <b>VA</b>  |
| Percent Moisture                                  | 26.5                     | 0.2   | *         | wt%       | 1  | 3/20/2014                                       |

**Qualifiers:**

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 HT - Sample received past holding time  
 \* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range  
 H - Holding time exceeded

## CHAIN OF CUSTODY RECORD

[illegible]

## Sample Receipt Checklist

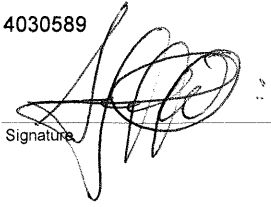
Client Name **WESTON CHICAGO**

Date and Time Received: **3/19/2014 2:30:00 PM**

Work Order Number **14030589**

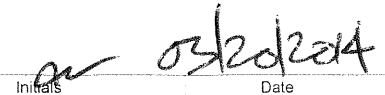
Received by: **DO**

Checklist completed by:



**3/19/14**

Reviewed by:



Signature

Date

Initials

Date

Matrix:

Carrier name Client Delivered

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature **2.7 °C**

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☐

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by: \_\_\_\_\_

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments:

Client / Person  
contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response:

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill  
**Test No:** SW5035/8260B **Matrix:** S

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID         | BR4FBZ | BZMED8 | DBFM   | DCA12D4 |  |  |  |  |
|-------------------|--------|--------|--------|---------|--|--|--|--|
| VBLK031914A-2     | 93.2   | 101    | 97.8   | 106     |  |  |  |  |
| VLCS031914A-2     | 98.4   | 101    | 98.7   | 102     |  |  |  |  |
| VLCSD031914A-2    | 98.5   | 102    | 101    | 102     |  |  |  |  |
| 14030589-002A:50  | 104    | 97.8   | 92.6   | 96.5    |  |  |  |  |
| 14030589-003A     | 90.1   | 95.8   | 104    | 112     |  |  |  |  |
| 14030589-004A     | 87.4   | 97.8   | 80.6   | 91.7    |  |  |  |  |
| 14030589-001A     | 99.9   | 98.7   | 73.2 * | 84.4    |  |  |  |  |
| 14030589-002A:500 | 102    | 102    | 97.4   | 114     |  |  |  |  |

| Acronym | Surrogate               | QC Limits |
|---------|-------------------------|-----------|
| BR4FBZ  | = 4-Bromofluorobenzene  | 63-110    |
| BR4FBZ  | = 4-Bromofluorobenzene  | 44-114    |
| BZMED8  | = Toluene-d8            | 85-110    |
| BZMED8  | = Toluene-d8            | 62-122    |
| DBFM    | = Dibromofluoromethane  | 83-119    |
| DBFM    | = Dibromofluoromethane  | 74-150    |
| DCA12D4 | = 1,2-Dichloroethane-d4 | 84-129    |
| DCA12D4 | = 1,2-Dichloroethane-d4 | 78-160    |

\* Surrogate recovery outside acceptance limit

## Analytical Run Summary

Run ID: VOA-2\_140319B (R97295)

Analyst: PS

Printed: 20-Mar-14

| SeqNo   | Sample ID     | Type | Test Code   | Batch  | DF  | File ID              | Date/Time Analyzed |
|---------|---------------|------|-------------|--------|-----|----------------------|--------------------|
| 2629092 | BFB031914A-2  | TUNE | BFB         | R97295 | 1   | H:\VOC-2\031914A\031 | 03/19/2014 19:51   |
| 2629093 | VSTD100R      | CCV  | VOC_ENCORE+ | R97295 | 1   | H:\VOC-2\031914A\031 | 03/19/2014 21:03   |
| 2629094 | VBLK031914A-2 | MBLK | VOC_ENCORE+ | R97295 | 1   | H:\VOC-2\031914A\031 | 03/19/2014 21:40   |
| 2629096 | VLCS031914A-2 | LCS  | VOC_ENCORE+ | R97295 | 1   | H:\VOC-2\031914A\031 | 03/19/2014 22:15   |
| 2629097 | VLCS031914A-2 | LCSD | VOC_ENCORE+ | R97295 | 1   | H:\VOC-2\031914A\031 | 03/19/2014 22:50   |
| 2629099 | 14030589-002A | SAMP | VOC_5035    | 75154  | 50  | H:\VOC-2\031914A\031 | 03/20/2014 0:03    |
| 2629100 | 14030589-003A | SAMP | VOC_5035    | 75154  | 1   | H:\VOC-2\031914A\031 | 03/20/2014 1:48    |
| 2629101 | 14030589-004A | SAMP | VOC_5035    | 75154  | 1   | H:\VOC-2\031914A\031 | 03/20/2014 2:23    |
| 2629102 | 14030589-001A | SAMP | VOC_5035    | 75154  | 1   | H:\VOC-2\031914A\031 | 03/20/2014 2:58    |
| 2629103 | 14030589-002A | SAMP | VOC_5035    | 75154  | 500 | H:\VOC-2\031914A\031 | 03/20/2014 3:32    |
| 2629104 | 14030415-001A | SAMP | VOC_ENCORE  | 73901  | 1   | H:\VOC-2\031914A\031 | 03/20/2014 4:07    |
| 2629105 | 14030415-002A | SAMP | VOC_ENCORE  | 73901  | 1   | H:\VOC-2\031914A\031 | 03/20/2014 4:42    |
| 2629106 | 14030415-012A | SAMP | BTEX_ENCORE | 74572  | 1   | H:\VOC-2\031914A\031 | 03/20/2014 5:17    |
| 2629107 | 14030552-001A | SAMP | F-LIST_VOC  | 75052  | 1   | H:\VOC-2\031914A\031 | 03/20/2014 5:51    |
| 2629108 | 14030475-002A | SAMP | VOC_5035    | 75166  | 1   | H:\VOC-2\031914A\031 | 03/20/2014 6:26    |
| 2629109 | 14030424-005A | SAMP | VOC_5035    | 75211  | 50  | H:\VOC-2\031914A\031 | 03/20/2014 7:00    |
| 2629110 | 14030424-009A | SAMP | VOC_5035    | 75211  | 50  | H:\VOC-2\031914A\031 | 03/20/2014 7:35    |

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97295

| Sample ID: <b>VBLK031914A-2</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140319B</b> |          |           |             |      |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97295</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2629094</b>        |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane           | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1,2,2-Tetrachloroethane       | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1,2-Trichloroethane           | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1-Dichloroethane              | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,1-Dichloroethene              | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,2-Dichloroethane              | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 1,2-Dichloropropane             | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| 2-Butanone                      | ND                      | 0.075                      |                     |                                 |                              |          |           |             |      |          |      |
| 2-Hexanone                      | ND                      | 0.020                      |                     |                                 |                              |          |           |             |      |          |      |
| 4-Methyl-2-pentanone            | ND                      | 0.020                      |                     |                                 |                              |          |           |             |      |          |      |
| Acetone                         | ND                      | 0.075                      |                     |                                 |                              |          |           |             |      |          |      |
| Benzene                         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromodichloromethane            | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromoform                       | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Bromomethane                    | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| Carbon disulfide                | ND                      | 0.050                      |                     |                                 |                              |          |           |             |      |          |      |
| Carbon tetrachloride            | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chlorobenzene                   | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chloroethane                    | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| Chloroform                      | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Chloromethane                   | ND                      | 0.010                      |                     |                                 |                              |          |           |             |      |          |      |
| cis-1,2-Dichloroethene          | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| cis-1,3-Dichloropropene         | ND                      | 0.0020                     |                     |                                 |                              |          |           |             |      |          |      |
| Dibromochloromethane            | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Ethylbenzene                    | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Methyl tert-butyl ether         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Methylene chloride              | 0.00208                 | 0.010                      |                     |                                 |                              |          |           |             |      |          | J    |
| Styrene                         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Tetrachloroethene               | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| Toluene                         | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |
| trans-1,2-Dichloroethene        | ND                      | 0.0050                     |                     |                                 |                              |          |           |             |      |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97295

|                                 |                         |                            |                     |                                 |                              |          |           |             |      |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VBLK031914A-2</b> | SampType: <b>MBLK</b>   | TestCode: <b>VOC_ENCOR</b> | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97295</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2629094</b>        |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

trans-1,3-Dichloropropene  
Trichloroethene  
Vinyl chloride  
Xylenes, Total

ND  
ND  
ND  
ND

0.0020  
0.0050  
0.0050  
0.015

|                                 |                         |                            |                                 |                       |                              |          |           |             |      |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------------------|-----------------------|------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>VLCS031914A-2</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENCOR</b> | Units: <b>mg/Kg</b>             | Prep Date:            | Run ID: <b>VOA-2_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97295</b> | TestNo: <b>SW5035/8260</b> | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2629096</b> |                              |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                        | SPK value                       | SPK Ref Val           | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

1,1,1-Trichloroethane  
1,1,2,2-Tetrachloroethane  
1,1,2-Trichloroethane  
1,1-Dichloroethane  
1,1-Dichloroethene  
1,2-Dichloroethane  
1,2-Dichloropropane  
2-Butanone  
2-Hexanone  
4-Methyl-2-pentanone  
Acetone  
Benzene  
Bromodichloromethane  
Bromoform  
Bromomethane  
Carbon disulfide  
Carbon tetrachloride  
Chlorobenzene  
Chloroethane  
Chloroform  
Chloromethane  
cis-1,2-Dichloroethene

0.05371  
0.05682  
0.05362  
0.05367  
0.04539  
0.05093  
0.05391  
0.1003  
0.09771  
0.1001  
0.1149  
0.0535  
0.05411  
0.05704  
0.04174  
0.1221  
0.05285  
0.05524  
0.06179  
0.05238  
0.0593  
0.05329

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**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
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E - Value above quantitation range



**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97295

| Sample ID: <b>VLCS031914A-2</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b>             | Prep Date:  |      |          |                       | Run ID: <b>VOA-2_140319B</b> |      |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------------------|-------------|------|----------|-----------------------|------------------------------|------|----------|------|
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97295</b> | TestNo: <b>SW5035/8260</b> | Analysis Date: <b>3/19/2014</b> |             |      |          | SeqNo: <b>2629096</b> |                              |      |          |      |
| Analyte                         | Result                  | PQL                        | SPK value                       | SPK Ref Val | %REC | LowLimit | HighLimit             | RPD Ref Val                  | %RPD | RPDLimit | Qual |
| cis-1,3-Dichloropropene         | 0.05127                 | 0.0020                     | 0.05                            | 0           | 103  | 70       | 130                   | 0                            | 0    |          |      |
| Dibromochloromethane            | 0.05523                 | 0.0050                     | 0.05                            | 0           | 110  | 70       | 130                   | 0                            | 0    |          |      |
| Ethylbenzene                    | 0.0583                  | 0.0050                     | 0.05                            | 0           | 117  | 70       | 130                   | 0                            | 0    |          |      |
| Methyl tert-butyl ether         | 0.05143                 | 0.0050                     | 0.05                            | 0           | 103  | 70       | 130                   | 0                            | 0    |          |      |
| Methylene chloride              | 0.04688                 | 0.010                      | 0.05                            | 0.00208     | 89.6 | 70       | 130                   | 0                            | 0    |          |      |
| Styrene                         | 0.05742                 | 0.0050                     | 0.05                            | 0           | 115  | 70       | 130                   | 0                            | 0    |          |      |
| Tetrachloroethene               | 0.05772                 | 0.0050                     | 0.05                            | 0           | 115  | 70       | 130                   | 0                            | 0    |          |      |
| Toluene                         | 0.05419                 | 0.0050                     | 0.05                            | 0           | 108  | 70       | 130                   | 0                            | 0    |          |      |
| trans-1,2-Dichloroethene        | 0.05093                 | 0.0050                     | 0.05                            | 0           | 102  | 70       | 130                   | 0                            | 0    |          |      |
| trans-1,3-Dichloropropene       | 0.05666                 | 0.0020                     | 0.05                            | 0           | 113  | 70       | 130                   | 0                            | 0    |          |      |
| Trichloroethene                 | 0.05079                 | 0.0050                     | 0.05                            | 0           | 102  | 70       | 130                   | 0                            | 0    |          |      |
| Vinyl chloride                  | 0.06294                 | 0.0050                     | 0.05                            | 0           | 126  | 70       | 130                   | 0                            | 0    |          |      |
| Xylenes, Total                  | 0.1689                  | 0.015                      | 0.15                            | 0           | 113  | 70       | 130                   | 0                            | 0    |          |      |

| Sample ID: <b>VLCS031914A-2</b> | SampType: <b>LCS</b>    | TestCode: <b>VOC_ENC</b>   | Units: <b>mg/Kg</b> | Prep Date:                      | Run ID: <b>VOA-2_140319B</b> |          |           |             |       |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------------------------------|----------|-----------|-------------|-------|----------|------|
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97295</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2629097</b>        |          |           |             |       |          |      |
| Analyte                         | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC                         | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| 1,1,1-Trichloroethane           | 0.05323                 | 0.0050                     | 0.05                | 0                               | 106                          | 70       | 130       | 0.05371     | 0.898 | 20       |      |
| 1,1,2,2-Tetrachloroethane       | 0.05455                 | 0.0050                     | 0.05                | 0                               | 109                          | 70       | 130       | 0.05682     | 4.08  | 20       |      |
| 1,1,2-Trichloroethane           | 0.05469                 | 0.0050                     | 0.05                | 0                               | 109                          | 70       | 130       | 0.05362     | 1.98  | 20       |      |
| 1,1-Dichloroethane              | 0.0544                  | 0.0050                     | 0.05                | 0                               | 109                          | 70       | 130       | 0.05367     | 1.35  | 20       |      |
| 1,1-Dichloroethene              | 0.0444                  | 0.0050                     | 0.05                | 0                               | 88.8                         | 70       | 130       | 0.04539     | 2.21  | 20       |      |
| 1,2-Dichloroethane              | 0.05041                 | 0.0050                     | 0.05                | 0                               | 101                          | 70       | 130       | 0.05093     | 1.03  | 20       |      |
| 1,2-Dichloropropane             | 0.05427                 | 0.0050                     | 0.05                | 0                               | 109                          | 70       | 130       | 0.05391     | 0.666 | 20       |      |
| 2-Butanone                      | 0.09698                 | 0.075                      | 0.1                 | 0                               | 97                           | 70       | 130       | 0.1003      | 3.40  | 20       |      |
| 2-Hexanone                      | 0.0943                  | 0.020                      | 0.1                 | 0                               | 94.3                         | 70       | 130       | 0.09771     | 3.55  | 20       |      |
| 4-Methyl-2-pentanone            | 0.1032                  | 0.020                      | 0.1                 | 0                               | 103                          | 70       | 130       | 0.1001      | 3.05  | 20       |      |
| Acetone                         | 0.1092                  | 0.075                      | 0.1                 | 0                               | 109                          | 50       | 150       | 0.1149      | 5.03  | 20       |      |
| Benzene                         | 0.05367                 | 0.0050                     | 0.05                | 0                               | 107                          | 70       | 130       | 0.0535      | 0.317 | 20       |      |
| Bromodichloromethane            | 0.05367                 | 0.0050                     | 0.05                | 0                               | 107                          | 70       | 130       | 0.05411     | 0.816 | 20       |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97295**

| Sample ID: <b>VLCS031914A-2</b> | SampType: <b>LCSD</b>   | TestCode: <b>VOC_ENC0R</b> | Units: <b>mg/Kg</b> | Prep Date:                      |      |          |           | Run ID: <b>VOA-2_140319B</b> |       |          |      |
|---------------------------------|-------------------------|----------------------------|---------------------|---------------------------------|------|----------|-----------|------------------------------|-------|----------|------|
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97295</b> | TestNo: <b>SW5035/8260</b> |                     | Analysis Date: <b>3/19/2014</b> |      |          |           | SeqNo: <b>2629097</b>        |       |          |      |
| Analyte                         | Result                  | PQL                        | SPK value           | SPK Ref Val                     | %REC | LowLimit | HighLimit | RPD Ref Val                  | %RPD  | RPDLimit | Qual |
| Bromoform                       | 0.05613                 | 0.0050                     | 0.05                | 0                               | 112  | 70       | 130       | 0.05704                      | 1.61  | 20       |      |
| Bromomethane                    | 0.04412                 | 0.010                      | 0.05                | 0                               | 88.2 | 70       | 130       | 0.04174                      | 5.54  | 20       |      |
| Carbon disulfide                | 0.1233                  | 0.050                      | 0.1                 | 0                               | 123  | 70       | 130       | 0.1221                       | 0.970 | 20       |      |
| Carbon tetrachloride            | 0.05407                 | 0.0050                     | 0.05                | 0                               | 108  | 70       | 130       | 0.05285                      | 2.28  | 20       |      |
| Chlorobenzene                   | 0.05379                 | 0.0050                     | 0.05                | 0                               | 108  | 70       | 130       | 0.05524                      | 2.66  | 20       |      |
| Chloroethane                    | 0.06345                 | 0.010                      | 0.05                | 0                               | 127  | 70       | 130       | 0.06179                      | 2.65  | 20       |      |
| Chloroform                      | 0.05311                 | 0.0050                     | 0.05                | 0                               | 106  | 70       | 130       | 0.05238                      | 1.38  | 20       |      |
| Chloromethane                   | 0.06258                 | 0.010                      | 0.05                | 0                               | 125  | 70       | 130       | 0.0593                       | 5.38  | 20       |      |
| cis-1,2-Dichloroethene          | 0.05476                 | 0.0050                     | 0.05                | 0                               | 110  | 70       | 130       | 0.05329                      | 2.72  | 20       |      |
| cis-1,3-Dichloropropene         | 0.05258                 | 0.0020                     | 0.05                | 0                               | 105  | 70       | 130       | 0.05127                      | 2.52  | 20       |      |
| Dibromochloromethane            | 0.05469                 | 0.0050                     | 0.05                | 0                               | 109  | 70       | 130       | 0.05523                      | 0.983 | 20       |      |
| Ethylbenzene                    | 0.0573                  | 0.0050                     | 0.05                | 0                               | 115  | 70       | 130       | 0.0583                       | 1.73  | 20       |      |
| Methyl tert-butyl ether         | 0.05077                 | 0.0050                     | 0.05                | 0                               | 102  | 70       | 130       | 0.05143                      | 1.29  | 20       |      |
| Methylene chloride              | 0.04506                 | 0.010                      | 0.05                | 0.00208                         | 86   | 70       | 130       | 0.04688                      | 3.96  | 20       |      |
| Styrene                         | 0.05712                 | 0.0050                     | 0.05                | 0                               | 114  | 70       | 130       | 0.05742                      | 0.524 | 20       |      |
| Tetrachloroethene               | 0.05699                 | 0.0050                     | 0.05                | 0                               | 114  | 70       | 130       | 0.05772                      | 1.27  | 20       |      |
| Toluene                         | 0.0546                  | 0.0050                     | 0.05                | 0                               | 109  | 70       | 130       | 0.05419                      | 0.754 | 20       |      |
| trans-1,2-Dichloroethene        | 0.05049                 | 0.0050                     | 0.05                | 0                               | 101  | 70       | 130       | 0.05093                      | 0.868 | 20       |      |
| trans-1,3-Dichloropropene       | 0.05805                 | 0.0020                     | 0.05                | 0                               | 116  | 70       | 130       | 0.05666                      | 2.42  | 20       |      |
| Trichloroethene                 | 0.05156                 | 0.0050                     | 0.05                | 0                               | 103  | 70       | 130       | 0.05079                      | 1.50  | 20       |      |
| Vinyl chloride                  | 0.06371                 | 0.0050                     | 0.05                | 0                               | 127  | 70       | 130       | 0.06294                      | 1.22  | 20       |      |
| Xylenes, Total                  | 0.1652                  | 0.015                      | 0.15                | 0                               | 110  | 70       | 130       | 0.1689                       | 2.25  | 20       |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill  
**Test No:** SW8270C **Matrix:** S

## QC SUMMARY REPORT SURROGATE RECOVERIES

| Sample ID        | CLPH2D4 | DCBZ12D4 | NO2BZD5 | PH246BR | PH2F | PHD5 | PHEN2F | PHEND14 |
|------------------|---------|----------|---------|---------|------|------|--------|---------|
| MB-75181-SVOC    | 70.3    | 79.7     | 74.2    | 88.7    | 68.4 | 67.6 | 77.1   | 87.4    |
| LCS-75181-SVOC   | 58.9    | 64.6     | 63.0    | 78.5    | 56.6 | 59.3 | 69.2   | 80.5    |
| 14030492-008AMS  | 48.1    | 51.8     | 54.0    | 70.4    | 44.3 | 50.3 | 62.7   | 68.4    |
| 14030492-008AMSD | 69.2    | 74.7     | 77.4    | 82.2    | 65.3 | 69.6 | 81.0   | 77.5    |
| 14030589-001B    | 72.8    | 81.3     | 82.7    | 97.7    | 68.8 | 72.9 | 85.0   | 98.8    |
| 14030589-002B    | 76.6    | 85.6     | 87.4    | 99.2    | 72.2 | 75.9 | 88.4   | 102     |
| 14030589-003B    | 66.6    | 72.2     | 71.9    | 85.5    | 64.5 | 65.8 | 75.2   | 87.8    |
| 14030589-004B    | 52.4    | 57.4     | 55.9    | 69.8    | 49.8 | 51.9 | 60.7   | 74.8    |

| Acronym  | Surrogate                | QC Limits |
|----------|--------------------------|-----------|
| CLPH2D4  | = 2-Chlorophenol-d4      | 20-130    |
| DCBZ12D4 | = 1,2-Dichlorobenzene-d4 | 20-130    |
| NO2BZD5  | = Nitrobenzene-d5        | 23-120    |
| PH246BR  | = 2,4,6-Tribromophenol   | 19-122    |
| PH2F     | = 2-Fluorophenol         | 25-121    |
| PHD5     | = Phenol-d5              | 24-113    |
| PHEN2F   | = 2-Fluorobiphenyl       | 30-115    |
| PHEND14  | = 4-Terphenyl-d14        | 18-137    |

\* Surrogate recovery outside acceptance limit

Prep Start Date: **3/19/2014 9:48:32 A**

 Prep End Date: **3/20/2014 2:50:40 P**

Prep Factor Units:

mL / Kg

 Prep Batch **75181**

 Prep Code: **3550\_SVOC**

 Technician: **ADM**

| Sample ID        | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor  | PrepStart | PrepEnd   |
|------------------|--------|----|---------|-----------|-----------|---------|---------|-----------|-----------|
| MB-75181-SVOC    |        |    | 0.03    | 0         | 0         | 1       | 33.333  | 3/19/2014 | 3/19/2014 |
| LCS-75181-SVOC   |        |    | 0.03    | 0         | 0         | 1       | 33.333  | 3/19/2014 | 3/19/2014 |
| 14030492-007A    | Soil   |    | 0.03017 | 0         | 0         | 10      | 331.455 | 3/19/2014 | 3/19/2014 |
| 14030492-008A    | Soil   |    | 0.03006 | 0         | 0         | 1       | 33.267  | 3/19/2014 | 3/19/2014 |
| 14030492-009B    | Soil   |    | 0.03007 | 0         | 0         | 1       | 33.256  | 3/19/2014 | 3/19/2014 |
| 14030492-010B    | Soil   |    | 0.0301  | 0         | 0         | 1       | 33.223  | 3/19/2014 | 3/19/2014 |
| 14030492-011A    | Soil   |    | 0.03013 | 0         | 0         | 1       | 33.190  | 3/19/2014 | 3/19/2014 |
| 14030492-012A    | Soil   |    | 0.03002 | 0         | 0         | 1       | 33.311  | 3/19/2014 | 3/19/2014 |
| 14030549-001B    | Soil   |    | 0.03015 | 0         | 0         | 1       | 33.167  | 3/19/2014 | 3/19/2014 |
| 14030492-008AMS  | Soil   |    | 0.03004 | 0         | 0         | 1       | 33.289  | 3/19/2014 | 3/19/2014 |
| 14030492-008AMSD | Soil   |    | 0.03004 | 0         | 0         | 1       | 33.289  | 3/19/2014 | 3/19/2014 |
| 14030552-001A    | Soil   |    | 0.03019 | 0         | 0         | 1       | 33.124  | 3/19/2014 | 3/19/2014 |
| 14030589-001B    | Soil   |    | 0.03011 | 0         | 0         | 1       | 33.212  | 3/20/2014 | 3/20/2014 |
| 14030589-002B    | Soil   |    | 0.03008 | 0         | 0         | 1       | 33.245  | 3/20/2014 | 3/20/2014 |
| 14030589-003B    | Soil   |    | 0.0303  | 0         | 0         | 1       | 33.003  | 3/20/2014 | 3/20/2014 |
| 14030589-004B    | Soil   |    | 0.03033 | 0         | 0         | 1       | 32.971  | 3/20/2014 | 3/20/2014 |
| 14030573-071B    | Soil   |    | 0.03022 | 0         | 0         | 1       | 33.091  | 3/20/2014 | 3/20/2014 |

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75181

|                                 |                        |                            |                     |                                 |                               |          |           |             |      |          |      |
|---------------------------------|------------------------|----------------------------|---------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>MB-75181-SVOC</b> | SampType: <b>MBLK</b>  | TestCode: <b>SVOC_SOIL</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>SVOC-5_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>75181</b> | TestNo: <b>SW8270C</b>     |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628849</b>         |          |           |             |      |          |      |
| Analyte                         | Result                 | PQL                        | SPK value           | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                        |    |       |  |  |  |  |  |  |  |  |  |
|------------------------|----|-------|--|--|--|--|--|--|--|--|--|
| Acenaphthene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Acenaphthylene         | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Anthracene             | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benz(a)anthracene      | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(a)pyrene         | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(b)fluoranthene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(g,h,i)perylene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Benzo(k)fluoranthene   | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Chrysene               | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Dibenz(a,h)anthracene  | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Fluoranthene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Fluorene               | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Indeno(1,2,3-cd)pyrene | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Naphthalene            | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Phenanthrene           | ND | 0.033 |  |  |  |  |  |  |  |  |  |
| Pyrene                 | ND | 0.033 |  |  |  |  |  |  |  |  |  |

|                                  |                        |                            |                     |                                 |                               |          |           |             |      |          |      |
|----------------------------------|------------------------|----------------------------|---------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-75181-SVOC</b> | SampType: <b>LCS</b>   | TestCode: <b>SVOC_SOIL</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>SVOC-5_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>           | Batch ID: <b>75181</b> | TestNo: <b>SW8270C</b>     |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628859</b>         |          |           |             |      |          |      |
| Analyte                          | Result                 | PQL                        | SPK value           | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |       |       |       |   |      |    |     |   |   |  |  |
|---------------------------|-------|-------|-------|---|------|----|-----|---|---|--|--|
| Acenaphthene              | 1.302 | 0.033 | 1.667 | 0 | 78.1 | 37 | 134 | 0 | 0 |  |  |
| 4-Chloro-3-methylphenol   | 2.306 | 0.33  | 3.333 | 0 | 69.2 | 29 | 134 | 0 | 0 |  |  |
| 2-Chlorophenol            | 1.925 | 0.17  | 3.333 | 0 | 57.8 | 29 | 105 | 0 | 0 |  |  |
| 1,4-Dichlorobenzene       | 1.044 | 0.17  | 1.667 | 0 | 62.6 | 26 | 111 | 0 | 0 |  |  |
| 2,4-Dinitrotoluene        | 1.264 | 0.033 | 1.667 | 0 | 75.8 | 46 | 125 | 0 | 0 |  |  |
| 4-Nitrophenol             | 2.711 | 0.33  | 3.333 | 0 | 81.3 | 12 | 146 | 0 | 0 |  |  |
| N-Nitrosodi-n-propylamine | 1.059 | 0.033 | 1.667 | 0 | 63.5 | 29 | 109 | 0 | 0 |  |  |
| Pentachlorophenol         | 2.459 | 0.067 | 3.333 | 0 | 73.8 | 10 | 192 | 0 | 0 |  |  |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75181

|                                  |                        |                            |                     |                                 |                               |          |           |             |      |          |      |
|----------------------------------|------------------------|----------------------------|---------------------|---------------------------------|-------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-75181-SVOC</b> | SampType: <b>LCS</b>   | TestCode: <b>SVOC_SOIL</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>SVOC-5_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>           | Batch ID: <b>75181</b> | TestNo: <b>SW8270C</b>     |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628859</b>         |          |           |             |      |          |      |
| Analyte                          | Result                 | PQL                        | SPK value           | SPK Ref Val                     | %REC                          | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                        |       |       |       |   |      |    |     |   |   |  |  |
|------------------------|-------|-------|-------|---|------|----|-----|---|---|--|--|
| Phenol                 | 1.983 | 0.17  | 3.333 | 0 | 59.5 | 27 | 104 | 0 | 0 |  |  |
| Pyrene                 | 1.404 | 0.033 | 1.667 | 0 | 84.2 | 42 | 148 | 0 | 0 |  |  |
| 1,2,4-Trichlorobenzene | 1.085 | 0.17  | 1.667 | 0 | 65.1 | 55 | 106 | 0 | 0 |  |  |

|                            |                 |                     |              |                          |                        |          |           |             |      |          |      |
|----------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030492-008AMS | SampType: MS    | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: SVOC-5_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ            | Batch ID: 75181 | TestNo: SW8270C     |              | Analysis Date: 3/19/2014 | SeqNo: 2628888         |          |           |             |      |          |      |
| Analyte                    | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |        |       |       |   |      |    |     |   |   |  |  |
|---------------------------|--------|-------|-------|---|------|----|-----|---|---|--|--|
| Acenaphthene              | 1.203  | 0.033 | 1.665 | 0 | 72.2 | 24 | 139 | 0 | 0 |  |  |
| 4-Chloro-3-methylphenol   | 2.165  | 0.33  | 3.329 | 0 | 65   | 28 | 121 | 0 | 0 |  |  |
| 2-Chlorophenol            | 1.64   | 0.17  | 3.329 | 0 | 49.3 | 21 | 102 | 0 | 0 |  |  |
| 1,4-Dichlorobenzene       | 0.8652 | 0.17  | 1.665 | 0 | 52   | 27 | 95  | 0 | 0 |  |  |
| 2,4-Dinitrotoluene        | 1.151  | 0.033 | 1.665 | 0 | 69.1 | 32 | 127 | 0 | 0 |  |  |
| 4-Nitrophenol             | 2.374  | 0.33  | 3.329 | 0 | 71.3 | 10 | 156 | 0 | 0 |  |  |
| N-Nitrosodi-n-propylamine | 0.9258 | 0.033 | 1.665 | 0 | 55.6 | 16 | 122 | 0 | 0 |  |  |
| Pentachlorophenol         | 2.042  | 0.067 | 3.329 | 0 | 61.4 | 10 | 204 | 0 | 0 |  |  |
| Phenol                    | 1.694  | 0.17  | 3.329 | 0 | 50.9 | 20 | 103 | 0 | 0 |  |  |
| Pyrene                    | 1.231  | 0.033 | 1.665 | 0 | 74   | 10 | 184 | 0 | 0 |  |  |
| 1,2,4-Trichlorobenzene    | 0.9344 | 0.17  | 1.665 | 0 | 56.1 | 55 | 106 | 0 | 0 |  |  |

|                             |                 |                     |              |                          |                        |          |           |             |      |          |      |
|-----------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030492-008AMSD | SampType: MSD   | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: SVOC-5_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ             | Batch ID: 75181 | TestNo: SW8270C     |              | Analysis Date: 3/19/2014 | SeqNo: 2628945         |          |           |             |      |          |      |
| Analyte                     | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                           |       |       |       |   |      |    |     |        |      |    |  |
|---------------------------|-------|-------|-------|---|------|----|-----|--------|------|----|--|
| Acenaphthene              | 1.447 | 0.033 | 1.665 | 0 | 86.9 | 24 | 139 | 1.203  | 18.4 | 57 |  |
| 4-Chloro-3-methylphenol   | 2.619 | 0.33  | 3.329 | 0 | 78.7 | 28 | 121 | 2.165  | 19.0 | 88 |  |
| 2-Chlorophenol            | 2.328 | 0.17  | 3.329 | 0 | 69.9 | 21 | 102 | 1.64   | 34.7 | 49 |  |
| 1,4-Dichlorobenzene       | 1.244 | 0.17  | 1.665 | 0 | 74.7 | 27 | 95  | 0.8652 | 35.9 | 43 |  |
| 2,4-Dinitrotoluene        | 1.321 | 0.033 | 1.665 | 0 | 79.3 | 32 | 127 | 1.151  | 13.7 | 37 |  |
| 4-Nitrophenol             | 2.667 | 0.33  | 3.329 | 0 | 80.1 | 10 | 156 | 2.374  | 11.6 | 56 |  |
| N-Nitrosodi-n-propylamine | 1.263 | 0.033 | 1.665 | 0 | 75.8 | 16 | 122 | 0.9258 | 30.8 | 47 |  |

**Qualifiers:** ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits E - Value above quantitation range  
\* - Non Accredited Parameter H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75181

|                             |                 |                     |              |                          |                        |          |           |             |      |          |      |
|-----------------------------|-----------------|---------------------|--------------|--------------------------|------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030492-008AMSD | SampType: MSD   | TestCode: SVOC_SOIL | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: SVOC-5_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ             | Batch ID: 75181 | TestNo: SW8270C     |              | Analysis Date: 3/19/2014 | SeqNo: 2628945         |          |           |             |      |          |      |
| Analyte                     | Result          | PQL                 | SPK value    | SPK Ref Val              | %REC                   | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Pentachlorophenol           | 2.343           | 0.067               | 3.329        | 0                        | 70.4                   | 10       | 204       | 2.042       | 13.7 | 47       |      |
| Phenol                      | 2.312           | 0.17                | 3.329        | 0                        | 69.5                   | 20       | 103       | 1.694       | 30.8 | 66       |      |
| Pyrene                      | 1.37            | 0.033               | 1.665        | 0                        | 82.3                   | 10       | 184       | 1.231       | 10.6 | 51       |      |
| 1,2,4-Trichlorobenzene      | 1.318           | 0.17                | 1.665        | 0                        | 79.2                   | 55       | 106       | 0.9344      | 34.1 | 23       | R    |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

Prep Start Date: **3/19/2014 8:40:40 A**

Prep End Date:

Prep Factor Units:

 Prep Batch **75178**

 Prep Code: **3580\_TPH**

 Technician: **PEM**

mL / Kg

| Sample ID        | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor   | PrepStart | PrepEnd   |
|------------------|--------|----|---------|-----------|-----------|---------|----------|-----------|-----------|
| MB-75178-TPH     |        |    | 0.005   | 0         | 0         | 5       | 1000.000 | 3/19/2014 | 3/19/2014 |
| LCS-75178-TPH    |        |    | 0.005   | 0         | 0         | 5       | 1000.000 | 3/19/2014 | 3/19/2014 |
| 14030549-001B    | Soil   |    | 0.00512 | 0         | 0         | 5       | 976.562  | 3/19/2014 | 3/19/2014 |
| 14030549-001BMS  | Soil   |    | 0.00512 | 0         | 0         | 5       | 976.562  | 3/19/2014 | 3/19/2014 |
| 14030549-001BMSD | Soil   |    | 0.00513 | 0         | 0         | 5       | 974.659  | 3/19/2014 | 3/19/2014 |
| 14030573-029B    | Soil   |    | 0.00518 | 0         | 0         | 5       | 965.251  | 3/20/2014 | 3/20/2014 |
| 14030573-038B    | Soil   |    | 0.00526 | 0         | 0         | 5       | 950.570  | 3/20/2014 | 3/20/2014 |
| 14030573-047B    | Soil   |    | 0.00531 | 0         | 0         | 5       | 941.620  | 3/20/2014 | 3/20/2014 |
| 14030573-056B    | Soil   |    | 0.00509 | 0         | 0         | 5       | 982.318  | 3/20/2014 | 3/20/2014 |
| 14030589-001B    | Soil   |    | 0.00514 | 0         | 0         | 5       | 972.763  | 3/20/2014 | 3/20/2014 |
| 14030589-002B    | Soil   |    | 0.00522 | 0         | 0         | 5       | 957.854  | 3/20/2014 | 3/20/2014 |
| 14030589-003B    | Soil   |    | 0.00533 | 0         | 0         | 5       | 938.086  | 3/20/2014 | 3/20/2014 |
| 14030589-004B    | Soil   |    | 0.00528 | 0         | 0         | 5       | 946.970  | 3/20/2014 | 3/20/2014 |



**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75178

|                         |                 |                 |              |                          |                          |          |           |             |      |          |      |
|-------------------------|-----------------|-----------------|--------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: MB-75178-TPH | SampType: MBLK  | TestCode: TPH_S | Units: mg/Kg | Prep Date: 3/19/2014     | Run ID: GC-FID-2_140319A |          |           |             |      |          |      |
| Client ID: ZZZZ         | Batch ID: 75178 | TestNo: SW8015M |              | Analysis Date: 3/19/2014 | SeqNo: 2628559           |          |           |             |      |          |      |
| Analyte                 | Result          | PQL             | SPK value    | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |  |  |  |  |  |  |  |  |   |
|-----------|-------|----|--|--|--|--|--|--|--|--|---|
| TPH (GRO) | ND    | 20 |  |  |  |  |  |  |  |  |   |
| TPH (DRO) | 6.478 | 20 |  |  |  |  |  |  |  |  | J |
| TPH (ERO) | ND    | 20 |  |  |  |  |  |  |  |  | * |

|                                 |                        |                        |                     |                                 |                                 |          |           |             |      |          |      |
|---------------------------------|------------------------|------------------------|---------------------|---------------------------------|---------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>LCS-75178-TPH</b> | SampType: <b>LCS</b>   | TestCode: <b>TPH_S</b> | Units: <b>mg/Kg</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>GC-FID-2_140319A</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>75178</b> | TestNo: <b>SW8015M</b> |                     | Analysis Date: <b>3/19/2014</b> | SeqNo: <b>2628560</b>           |          |           |             |      |          |      |
| Analyte                         | Result                 | PQL                    | SPK value           | SPK Ref Val                     | %REC                            | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |     |       |      |    |     |   |   |  |   |
|-----------|-------|----|-----|-------|------|----|-----|---|---|--|---|
| TPH (GRO) | 93.6  | 20 | 200 | 0     | 46.8 | 30 | 150 | 0 | 0 |  |   |
| TPH (DRO) | 103.8 | 20 | 200 | 6.478 | 48.7 | 30 | 150 | 0 | 0 |  |   |
| TPH (ERO) | 172.8 | 20 | 200 | 0     | 86.4 | 30 | 150 | 0 | 0 |  | * |

|                            |                 |                 |                  |                          |                          |          |           |             |      |          |      |
|----------------------------|-----------------|-----------------|------------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030549-001BMS | SampType: MS    | TestCode: TPH_S | Units: mg/Kg-dry | Prep Date: 3/19/2014     | Run ID: GC-FID-2_140319A |          |           |             |      |          |      |
| Client ID: ZZZZ            | Batch ID: 75178 | TestNo: SW8015M |                  | Analysis Date: 3/19/2014 | SeqNo: 2628674           |          |           |             |      |          |      |
| Analyte                    | Result          | PQL             | SPK value        | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |     |       |      |    |     |   |   |  |   |
|-----------|-------|----|-----|-------|------|----|-----|---|---|--|---|
| TPH (GRO) | 120.2 | 23 | 225 | 5.091 | 51.1 | 30 | 150 | 0 | 0 |  |   |
| TPH (DRO) | 132.8 | 23 | 225 | 8.493 | 55.2 | 30 | 150 | 0 | 0 |  |   |
| TPH (ERO) | 232.5 | 23 | 225 | 0     | 103  | 30 | 150 | 0 | 0 |  | * |

|                             |                 |                 |                  |                          |                          |          |           |             |      |          |      |
|-----------------------------|-----------------|-----------------|------------------|--------------------------|--------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030549-001BMSD | SampType: MSD   | TestCode: TPH_S | Units: mg/Kg-dry | Prep Date: 3/19/2014     | Run ID: GC-FID-2_140319A |          |           |             |      |          |      |
| Client ID: ZZZZ             | Batch ID: 75178 | TestNo: SW8015M |                  | Analysis Date: 3/19/2014 | SeqNo: 2628689           |          |           |             |      |          |      |
| Analyte                     | Result          | PQL             | SPK value        | SPK Ref Val              | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|           |       |    |       |       |      |    |     |       |      |    |   |
|-----------|-------|----|-------|-------|------|----|-----|-------|------|----|---|
| TPH (GRO) | 123.8 | 22 | 224.6 | 5.091 | 52.9 | 30 | 150 | 120.2 | 2.99 | 25 |   |
| TPH (DRO) | 135.1 | 22 | 224.6 | 8.493 | 56.4 | 30 | 150 | 132.8 | 1.75 | 25 |   |
| TPH (ERO) | 228.5 | 22 | 224.6 | 0     | 102  | 30 | 150 | 232.5 | 1.74 | 25 | * |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit<br>J - Analyte detected below quantitation limits<br>* - Non Accredited Parameter | S - Spike Recovery outside accepted recovery limits<br>R - RPD outside accepted recovery limits<br>H/HT - Holding Time Exceeded | B - Analyte detected in the associated Method Blank<br>E - Value above quantitation range |
|--------------------|--|---|---|

**CLIENT:** Weston Solutions  
**Work Order:** 14030589  
**Project:** 20405.012.005.2306.00, Buckeye Kankakee Spill

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97306**

|                                 |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|---------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMBLK 3/19/14</b> | SampType: <b>MBLK</b>   | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>BALANCE_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>          | Batch ID: <b>R97306</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/20/2014</b> | SeqNo: <b>2629281</b>          |          |           |             |      |          |      |
| Analyte                         | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |    |       |  |  |  |  |  |  |  |  |   |
|------------------|----|-------|--|--|--|--|--|--|--|--|---|
| Percent Moisture | ND | 0.200 |  |  |  |  |  |  |  |  | * |
|------------------|----|-------|--|--|--|--|--|--|--|--|---|

|                                   |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|-----------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMLCS-S 3/19/14</b> | SampType: <b>LCS</b>    | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>BALANCE_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZZ</b>           | Batch ID: <b>R97306</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/20/2014</b> | SeqNo: <b>2629282</b>          |          |           |             |      |          |      |
| Analyte                           | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |      |       |   |   |      |    |     |   |   |  |   |
|------------------|------|-------|---|---|------|----|-----|---|---|--|---|
| Percent Moisture | 4.98 | 0.200 | 5 | 0 | 99.6 | 80 | 120 | 0 | 0 |  | * |
|------------------|------|-------|---|---|------|----|-----|---|---|--|---|

|                                   |                         |                         |                   |                                 |                                |          |           |             |      |          |      |
|-----------------------------------|-------------------------|-------------------------|-------------------|---------------------------------|--------------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: <b>PMLCS-W 3/19/14</b> | SampType: <b>LCS</b>    | TestCode: <b>PMOIST</b> | Units: <b>wt%</b> | Prep Date: <b>3/19/2014</b>     | Run ID: <b>BALANCE_140319B</b> |          |           |             |      |          |      |
| Client ID: <b>ZZZZ</b>            | Batch ID: <b>R97306</b> | TestNo: <b>D2974</b>    |                   | Analysis Date: <b>3/20/2014</b> | SeqNo: <b>2629283</b>          |          |           |             |      |          |      |
| Analyte                           | Result                  | PQL                     | SPK value         | SPK Ref Val                     | %REC                           | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |       |       |      |   |     |    |     |   |   |  |   |
|------------------|-------|-------|------|---|-----|----|-----|---|---|--|---|
| Percent Moisture | 99.79 | 0.200 | 99.8 | 0 | 100 | 80 | 120 | 0 | 0 |  | * |
|------------------|-------|-------|------|---|-----|----|-----|---|---|--|---|

|                              |                  |                  |            |                          |                         |          |           |             |      |          |      |
|------------------------------|------------------|------------------|------------|--------------------------|-------------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 14030492-009B DUP | SampType: DUP    | TestCode: PMOIST | Units: wt% | Prep Date: 3/19/2014     | Run ID: BALANCE_140319B |          |           |             |      |          |      |
| Client ID: ZZZZ              | Batch ID: R97306 | TestNo: D2974    |            | Analysis Date: 3/20/2014 | SeqNo: 2629290          |          |           |             |      |          |      |
| Analyte                      | Result           | PQL              | SPK value  | SPK Ref Val              | %REC                    | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

|                  |       |       |   |   |   |   |   |       |       |    |   |
|------------------|-------|-------|---|---|---|---|---|-------|-------|----|---|
| Percent Moisture | 19.53 | 0.200 | 0 | 0 | 0 | 0 | 0 | 19.66 | 0.663 | 20 | * |
|------------------|-------|-------|---|---|---|---|---|-------|-------|----|---|

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
\* - Non Accredited Parameter

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
H/HT - Holding Time Exceeded

B - Analyte detected in the associated Method Blank  
E - Value above quantitation range

**STAT** Analysis Corporation

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

March 24, 2014

Weston Solutions  
20 North Wacker Drive  
Chicago, IL 60606

Telephone: (312) 424-3339  
Fax: (312) 424-3330

Analytical Report for STAT Workorder: 14030659 Revision 0

RE: 20405.012.005.2306.00, BKG, Kankakee, IL

Dear Lisa Graczyk:

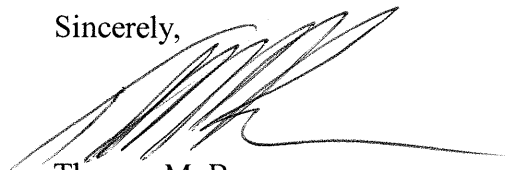
STAT Analysis received 5 samples for the referenced project on 3/21/2014 1:40:00 PM. The analytical results are presented in the following report.

All analyses were performed in accordance with the requirements of 35 IAC Part 186 / NELAC standards. Analyses were performed in accordance with methods as referenced on the analytical report. Those analytical results expressed on a dry weight basis are also noted on the analytical report.

All analyses were performed within established holding time criteria, and all Quality Control criteria met EPA or laboratory specifications except when noted in the Case Narrative or Analytical Report. If required, an estimate of uncertainty for the analyses can be provided. A listing of accredited methods/parameters can also be provided.

Thank you for the opportunity to serve you and I look forward to working with you in the future. If you have any questions regarding the enclosed materials, please contact me at (312) 733-0551.

Sincerely,



Thomas M. Bauer  
General Manager

*The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This analytical report shall become property of the Customer upon payment in full. Otherwise, STAT will be under no obligation to support, defend or discuss the analytical report.*

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**Client:** Weston Solutions  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL  
**Lab Order:** 14030659

**Work Order Sample Summary**

---

| <b>Lab Sample ID</b> | <b>Client Sample ID</b> | <b>Tag Number</b> | <b>Collection Date</b> | <b>Date Received</b> |
|----------------------|-------------------------|-------------------|------------------------|----------------------|
| 14030659-001A        | 1525 Hawkins            |                   | 3/20/2014 11:00:00 AM  | 3/21/2014            |
| 14030659-001B        | 1525 Hawkins            |                   | 3/20/2014 11:00:00 AM  | 3/21/2014            |
| 14030659-002A        | 1756 IL-113             |                   | 3/20/2014 11:30:00 AM  | 3/21/2014            |
| 14030659-002B        | 1756 IL-113             |                   | 3/20/2014 11:30:00 AM  | 3/21/2014            |
| 14030659-003A        | BKG-Summa-N-032114      |                   | 3/21/2014              | 3/21/2014            |
| 14030659-004A        | BKG-Summa-W-032114      |                   | 3/21/2014              | 3/21/2014            |
| 14030659-005A        | BKG-Summa-E-032114      |                   | 3/21/2014              | 3/21/2014            |

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**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: 1525 Hawkins

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/20/2014 11:00:00 AM

Lab ID: 14030659-001A

Matrix: Water

| Analyses                                   | Result | RL                       | Qualifier | Units      | DF | Date Analyzed |
|--|--------|--------------------------|-----------|------------|----|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> |        | <b>SW8260B (SW5030B)</b> |           | Prep Date: |    | Analyst: ERP  |
| Acetone                                    | ND     | 0.02                     |           | mg/L       | 1  | 3/22/2014     |
| Benzene                                    | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Bromodichloromethane                       | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Bromoform                                  | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Bromomethane                               | ND     | 0.01                     |           | mg/L       | 1  | 3/22/2014     |
| 2-Butanone                                 | ND     | 0.02                     |           | mg/L       | 1  | 3/22/2014     |
| Carbon disulfide                           | ND     | 0.01                     |           | mg/L       | 1  | 3/22/2014     |
| Carbon tetrachloride                       | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Chlorobenzene                              | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Chloroethane                               | ND     | 0.01                     |           | mg/L       | 1  | 3/22/2014     |
| Chloroform                                 | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Chloromethane                              | ND     | 0.01                     |           | mg/L       | 1  | 3/22/2014     |
| Dibromochloromethane                       | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1-Dichloroethane                         | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,2-Dichloroethane                         | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1-Dichloroethene                         | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| cis-1,2-Dichloroethene                     | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| trans-1,2-Dichloroethene                   | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,2-Dichloropropane                        | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| cis-1,3-Dichloropropene                    | ND     | 0.001                    |           | mg/L       | 1  | 3/22/2014     |
| trans-1,3-Dichloropropene                  | ND     | 0.001                    |           | mg/L       | 1  | 3/22/2014     |
| Ethylbenzene                               | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 2-Hexanone                                 | ND     | 0.02                     |           | mg/L       | 1  | 3/22/2014     |
| 4-Methyl-2-pentanone                       | ND     | 0.02                     |           | mg/L       | 1  | 3/22/2014     |
| Methylene chloride                         | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Methyl tert-butyl ether                    | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Styrene                                    | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Tetrachloroethene                          | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Toluene                                    | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1,1-Trichloroethane                      | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1,2-Trichloroethane                      | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Trichloroethene                            | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Vinyl chloride                             | ND     | 0.002                    |           | mg/L       | 1  | 3/22/2014     |
| Xylenes, Total                             | ND     | 0.015                    |           | mg/L       | 1  | 3/22/2014     |

**Qualifiers:**  
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HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: 1525 Hawkins

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/20/2014 11:00:00 AM

Lab ID: 14030659-001B

Matrix: Water

| Analyses                                 | Result                       | RL     | Qualifier            | Units | DF           | Date Analyzed |
|--|------------------------------|--------|----------------------|-------|--------------|---------------|
| <b>Polynuclear Aromatic Hydrocarbons</b> | <b>SW8270C-SIM (SW3510C)</b> |        | Prep Date: 3/24/2014 |       | Analyst: MEP |               |
| Acenaphthene                             | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Acenaphthylene                           | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Anthracene                               | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Benz(a)anthracene                        | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Benzo(a)pyrene                           | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Benzo(b)fluoranthene                     | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Benzo(g,h,i)perylene                     | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Benzo(k)fluoranthene                     | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Chrysene                                 | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Dibenz(a,h)anthracene                    | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Fluoranthene                             | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Fluorene                                 | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Indeno(1,2,3-cd)pyrene                   | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Naphthalene                              | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Phenanthrene                             | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Pyrene                                   | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |

**Qualifiers:**

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\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: 1756 IL-113

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/20/2014 11:30:00 AM

Lab ID: 14030659-002A

Matrix: Water

| Analyses                                   | Result | RL                       | Qualifier | Units      | DF | Date Analyzed |
|--|--------|--------------------------|-----------|------------|----|---------------|
| <b>Volatile Organic Compounds by GC/MS</b> |        | <b>SW8260B (SW5030B)</b> |           | Prep Date: |    | Analyst: ERP  |
| Acetone                                    | ND     | 0.02                     |           | mg/L       | 1  | 3/22/2014     |
| Benzene                                    | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Bromodichloromethane                       | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Bromoform                                  | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Bromomethane                               | ND     | 0.01                     |           | mg/L       | 1  | 3/22/2014     |
| 2-Butanone                                 | ND     | 0.02                     |           | mg/L       | 1  | 3/22/2014     |
| Carbon disulfide                           | ND     | 0.01                     |           | mg/L       | 1  | 3/22/2014     |
| Carbon tetrachloride                       | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Chlorobenzene                              | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Chloroethane                               | ND     | 0.01                     |           | mg/L       | 1  | 3/22/2014     |
| Chloroform                                 | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Chloromethane                              | ND     | 0.01                     |           | mg/L       | 1  | 3/22/2014     |
| Dibromochloromethane                       | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1-Dichloroethane                         | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,2-Dichloroethane                         | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1-Dichloroethene                         | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| cis-1,2-Dichloroethene                     | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| trans-1,2-Dichloroethene                   | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,2-Dichloropropane                        | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| cis-1,3-Dichloropropene                    | ND     | 0.001                    |           | mg/L       | 1  | 3/22/2014     |
| trans-1,3-Dichloropropene                  | ND     | 0.001                    |           | mg/L       | 1  | 3/22/2014     |
| Ethylbenzene                               | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 2-Hexanone                                 | ND     | 0.02                     |           | mg/L       | 1  | 3/22/2014     |
| 4-Methyl-2-pentanone                       | ND     | 0.02                     |           | mg/L       | 1  | 3/22/2014     |
| Methylene chloride                         | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Methyl tert-butyl ether                    | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Styrene                                    | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1,2,2-Tetrachloroethane                  | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Tetrachloroethene                          | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Toluene                                    | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1,1-Trichloroethane                      | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| 1,1,2-Trichloroethane                      | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Trichloroethene                            | ND     | 0.005                    |           | mg/L       | 1  | 3/22/2014     |
| Vinyl chloride                             | ND     | 0.002                    |           | mg/L       | 1  | 3/22/2014     |
| Xylenes, Total                             | ND     | 0.015                    |           | mg/L       | 1  | 3/22/2014     |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: 1756 IL-113

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/20/2014 11:30:00 AM

Lab ID: 14030659-002B

Matrix: Water

| Analyses                                 | Result                       | RL     | Qualifier            | Units | DF           | Date Analyzed |
|--|------------------------------|--------|----------------------|-------|--------------|---------------|
| <b>Polynuclear Aromatic Hydrocarbons</b> | <b>SW8270C-SIM (SW3510C)</b> |        | Prep Date: 3/24/2014 |       | Analyst: MEP |               |
| Acenaphthene                             | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Acenaphthylene                           | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Anthracene                               | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Benz(a)anthracene                        | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Benzo(a)pyrene                           | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Benzo(b)fluoranthene                     | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Benzo(g,h,i)perylene                     | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Benzo(k)fluoranthene                     | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Chrysene                                 | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Dibenz(a,h)anthracene                    | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Fluoranthene                             | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Fluorene                                 | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Indeno(1,2,3-cd)pyrene                   | ND                           | 0.0001 |                      | mg/L  | 1            | 3/24/2014     |
| Naphthalene                              | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Phenanthrene                             | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |
| Pyrene                                   | ND                           | 0.001  |                      | mg/L  | 1            | 3/24/2014     |

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |      |                             |                    |
|---|--------------|------|---|------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |      | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,1,1-Trichloroethane                             | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2,2-Tetrachloroethane                         | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2-Trichloroethane                             | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethane                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethene                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trichlorobenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trimethylbenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dibromoethane                                 | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloroethane                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloropropane                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3,5-Trimethylbenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Butadiene                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 1.8  |   | ppbv | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 1.8  |   | ppbv | 1                           | 3/21/2014          |
| Acetone   | ND           | 3.5  | * | ppbv | 1                           | 3/21/2014          |
| Benzene   | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Bromoform   | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloroform  | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 0.46         | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |

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E - Value above quantitation range

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |  |  |  |                      |             |
|---|--------------|--|--|--|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | Prep Date: 3/21/2014 | Analyst: VP |
|---|--------------|--|--|--|----------------------|-------------|

|                           |      |      |  |      |   |           |
|---------------------------|------|------|--|------|---|-----------|
| Ethylbenzene              | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Freon-113                 | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Freon-114                 | ND   | 1.8  |  | ppbv | 1 | 3/21/2014 |
| Heptane                   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Hexachlorobutadiene       | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Hexane                    | ND   | 0.89 |  | ppbv | 1 | 3/21/2014 |
| Isopropyl Alcohol         | ND   | 1.8  |  | ppbv | 1 | 3/21/2014 |
| m,p-Xylene                | ND   | 0.71 |  | ppbv | 1 | 3/21/2014 |
| Methyl tert-butyl ether   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Methylene chloride        | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| o-Xylene                  | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Propene                   | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| Styrene                   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Tetrachloroethene         | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Tetrahydrofuran           | ND   | 0.89 |  | ppbv | 1 | 3/21/2014 |
| Toluene                   | 0.39 | 0.35 |  | ppbv | 1 | 3/21/2014 |
| trans-1,2-Dichloroethene  | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| trans-1,3-Dichloropropene | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Trichloroethene           | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Trichlorofluoromethane    | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Vinyl acetate             | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| Vinyl chloride            | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Xylenes, Total            | ND   | 1.1  |  | ppbv | 1 | 3/21/2014 |

|   |              |  |  |  |                      |             |
|---|--------------|--|--|--|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | Prep Date: 3/21/2014 | Analyst: VP |
|---|--------------|--|--|--|----------------------|-------------|

|                           |    |      |  |       |   |           |
|---------------------------|----|------|--|-------|---|-----------|
| 1,1,1-Trichloroethane     | ND | 2    |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2,2-Tetrachloroethane | ND | 2.5  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2-Trichloroethane     | ND | 2    |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethane        | ND | 1.4  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethene        | ND | 1.4  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trichlorobenzene    | ND | 2.7  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trimethylbenzene    | ND | 1.8  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dibromoethane         | ND | 2.7  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichlorobenzene       | ND | 2.1  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloroethane        | ND | 1.4  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloropropane       | ND | 1.6  |  | µg/m³ | 1 | 3/21/2014 |
| 1,3,5-Trimethylbenzene    | ND | 1.8  |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Butadiene             | ND | 0.71 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Dichlorobenzene       | ND | 2.1  |  | µg/m³ | 1 | 3/21/2014 |

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\* - Non-accredited parameter

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |       |                             |                    |
|---|--------------|------|---|-------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |       | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,4-Dichlorobenzene                               | ND           | 2.1  |   | µg/m³ | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 2.7  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 7.3  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 7.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Acetone   | ND           | 8.5  | * | µg/m³ | 1                           | 3/21/2014          |
| Benzene   | ND           | 1.1  |   | µg/m³ | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 4.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 2.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromoform   | ND           | 9.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 3.4  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 1.1  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 2.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.89 |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroform  | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 1.4  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 3    |   | µg/m³ | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 2.3          | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethylbenzene                                      | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-113   | ND           | 2.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-114   | ND           | 12   |   | µg/m³ | 1                           | 3/21/2014          |
| Heptane   | ND           | 1.4  |   | µg/m³ | 1                           | 3/21/2014          |
| Hexachlorobutadiene                               | ND           | 3.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Hexane  | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Isopropyl Alcohol                                 | ND           | 4.4  |   | µg/m³ | 1                           | 3/21/2014          |
| m,p-Xylene  | ND           | 3    |   | µg/m³ | 1                           | 3/21/2014          |
| Methyl tert-butyl ether                           | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Methylene chloride                                | ND           | 12   |   | µg/m³ | 1                           | 3/21/2014          |
| o-Xylene  | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Propene   | ND           | 6    |   | µg/m³ | 1                           | 3/21/2014          |
| Styrene   | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Tetrachloroethene                                 | ND           | 2.5  |   | µg/m³ | 1                           | 3/21/2014          |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |  |       |                             |                    |
|---|--------------|------|--|-------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |  |       | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| Tetrahydrofuran                                   | ND           | 2.7  |  | µg/m³ | 1                           | 3/21/2014          |
| Toluene   | 1.5          | 1.4  |  | µg/m³ | 1                           | 3/21/2014          |
| trans-1,2-Dichloroethene                          | ND           | 1.4  |  | µg/m³ | 1                           | 3/21/2014          |
| trans-1,3-Dichloropropene                         | ND           | 1.6  |  | µg/m³ | 1                           | 3/21/2014          |
| Trichloroethene                                   | ND           | 2    |  | µg/m³ | 1                           | 3/21/2014          |
| Trichlorofluoromethane                            | ND           | 2    |  | µg/m³ | 1                           | 3/21/2014          |
| Vinyl acetate                                     | ND           | 12   |  | µg/m³ | 1                           | 3/21/2014          |
| Vinyl chloride                                    | ND           | 0.89 |  | µg/m³ | 1                           | 3/21/2014          |
| Xylenes, Total                                    | ND           | 4.6  |  | µg/m³ | 1                           | 3/21/2014          |

**Qualifiers:**

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J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range  
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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |      |                             |                    |
|---|--------------|------|---|------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |      | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,1,1-Trichloroethane                             | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2,2-Tetrachloroethane                         | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2-Trichloroethane                             | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethane                                | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethene                                | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trichlorobenzene                            | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trimethylbenzene                            | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dibromoethane                                 | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichlorobenzene                               | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloroethane                                | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloropropane                               | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,3,5-Trimethylbenzene                            | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Butadiene                                     | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Dichlorobenzene                               | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dichlorobenzene                               | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 1.9  |   | ppbv | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 1.9  |   | ppbv | 1                           | 3/21/2014          |
| Acetone   | ND           | 3.8  | * | ppbv | 1                           | 3/21/2014          |
| Benzene   | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Bromoform   | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Chloroform  | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 0.44         | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |

**Qualifiers:**

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |  |  |  |                             |                    |
|---|--------------|--|--|--|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
|---|--------------|--|--|--|-----------------------------|--------------------|

|                           |      |      |  |      |   |           |
|---------------------------|------|------|--|------|---|-----------|
| Ethylbenzene              | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Freon-113                 | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Freon-114                 | ND   | 1.9  |  | ppbv | 1 | 3/21/2014 |
| Heptane                   | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Hexachlorobutadiene       | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Hexane                    | ND   | 0.96 |  | ppbv | 1 | 3/21/2014 |
| Isopropyl Alcohol         | ND   | 1.9  |  | ppbv | 1 | 3/21/2014 |
| m,p-Xylene                | ND   | 0.76 |  | ppbv | 1 | 3/21/2014 |
| Methyl tert-butyl ether   | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Methylene chloride        | ND   | 3.8  |  | ppbv | 1 | 3/21/2014 |
| o-Xylene                  | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Propene                   | ND   | 3.8  |  | ppbv | 1 | 3/21/2014 |
| Styrene                   | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Tetrachloroethene         | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Tetrahydrofuran           | ND   | 0.96 |  | ppbv | 1 | 3/21/2014 |
| Toluene                   | 0.38 | 0.38 |  | ppbv | 1 | 3/21/2014 |
| trans-1,2-Dichloroethene  | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| trans-1,3-Dichloropropene | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Trichloroethene           | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Trichlorofluoromethane    | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Vinyl acetate             | ND   | 3.8  |  | ppbv | 1 | 3/21/2014 |
| Vinyl chloride            | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Xylenes, Total            | ND   | 1.1  |  | ppbv | 1 | 3/21/2014 |

|   |              |  |  |  |                             |                    |
|---|--------------|--|--|--|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
|---|--------------|--|--|--|-----------------------------|--------------------|

|                           |    |      |  |       |   |           |
|---------------------------|----|------|--|-------|---|-----------|
| 1,1,1-Trichloroethane     | ND | 2.1  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2,2-Tetrachloroethane | ND | 2.7  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2-Trichloroethane     | ND | 2.1  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethane        | ND | 1.5  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethene        | ND | 1.5  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trichlorobenzene    | ND | 2.9  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trimethylbenzene    | ND | 1.9  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dibromoethane         | ND | 2.9  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichlorobenzene       | ND | 2.3  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloroethane        | ND | 1.5  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloropropane       | ND | 1.7  |  | µg/m³ | 1 | 3/21/2014 |
| 1,3,5-Trimethylbenzene    | ND | 1.9  |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Butadiene             | ND | 0.76 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Dichlorobenzene       | ND | 2.3  |  | µg/m³ | 1 | 3/21/2014 |

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |       |                             |                    |
|---|--------------|------|---|-------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |       | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,4-Dichlorobenzene                               | ND           | 2.3  |   | µg/m³ | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 3.4  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 2.9  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 7.8  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 1.9  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 7.8  |   | µg/m³ | 1                           | 3/21/2014          |
| Acetone   | ND           | 9.2  | * | µg/m³ | 1                           | 3/21/2014          |
| Benzene   | ND           | 1.1  |   | µg/m³ | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 5    |   | µg/m³ | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 2.5  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromoform   | ND           | 9.9  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 3.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 2.5  |   | µg/m³ | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.96 |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroform  | ND           | 1.9  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 1.9  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 1.5  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 1.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 2.2          | 1.9  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 1.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethylbenzene                                      | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-113   | ND           | 2.9  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-114   | ND           | 13   |   | µg/m³ | 1                           | 3/21/2014          |
| Heptane   | ND           | 1.5  |   | µg/m³ | 1                           | 3/21/2014          |
| Hexachlorobutadiene                               | ND           | 4    |   | µg/m³ | 1                           | 3/21/2014          |
| Hexane  | ND           | 3.4  |   | µg/m³ | 1                           | 3/21/2014          |
| Isopropyl Alcohol                                 | ND           | 4.8  |   | µg/m³ | 1                           | 3/21/2014          |
| m,p-Xylene  | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Methyl tert-butyl ether                           | ND           | 1.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Methylene chloride                                | ND           | 13   |   | µg/m³ | 1                           | 3/21/2014          |
| o-Xylene  | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Propene   | ND           | 6.5  |   | µg/m³ | 1                           | 3/21/2014          |
| Styrene   | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Tetrachloroethene                                 | ND           | 2.7  |   | µg/m³ | 1                           | 3/21/2014          |

**Qualifiers:**

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |  |                   |                             |                    |
|---|--------------|------|--|-------------------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |  |                   | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| Tetrahydrofuran                                   | ND           | 2.9  |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |
| Toluene   | 1.4          | 1.3  |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |
| trans-1,2-Dichloroethene                          | ND           | 1.5  |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |
| trans-1,3-Dichloropropene                         | ND           | 1.7  |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |
| Trichloroethene                                   | ND           | 2.1  |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |
| Trichlorofluoromethane                            | ND           | 2.1  |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |
| Vinyl acetate                                     | ND           | 13   |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |
| Vinyl chloride                                    | ND           | 0.96 |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |
| Xylenes, Total                                    | ND           | 5    |  | µg/m <sup>3</sup> | 1                           | 3/21/2014          |

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis  
S - Spike Recovery outside accepted recovery limits  
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E - Value above quantitation range  
H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |      |                             |                    |
|---|--------------|------|---|------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |      | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,1,1-Trichloroethane                             | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2,2-Tetrachloroethane                         | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2-Trichloroethane                             | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethane                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethene                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trichlorobenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trimethylbenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dibromoethane                                 | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloroethane                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloropropane                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3,5-Trimethylbenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Butadiene                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 1.8  |   | ppbv | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 1.8  |   | ppbv | 1                           | 3/21/2014          |
| Acetone   | ND           | 3.5  | * | ppbv | 1                           | 3/21/2014          |
| Benzene   | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Bromoform   | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloroform  | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 0.44         | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |

**Qualifiers:**

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B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

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S - Spike Recovery outside accepted recovery limits

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |  |  |  |                             |                    |
|---|--------------|--|--|--|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
|---|--------------|--|--|--|-----------------------------|--------------------|

|                           |      |      |  |      |   |           |
|---------------------------|------|------|--|------|---|-----------|
| Ethylbenzene              | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Freon-113                 | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Freon-114                 | ND   | 1.8  |  | ppbv | 1 | 3/21/2014 |
| Heptane                   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Hexachlorobutadiene       | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Hexane                    | ND   | 0.88 |  | ppbv | 1 | 3/21/2014 |
| Isopropyl Alcohol         | ND   | 1.8  |  | ppbv | 1 | 3/21/2014 |
| m,p-Xylene                | ND   | 0.7  |  | ppbv | 1 | 3/21/2014 |
| Methyl tert-butyl ether   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Methylene chloride        | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| o-Xylene                  | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Propene                   | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| Styrene                   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Tetrachloroethene         | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Tetrahydrofuran           | ND   | 0.88 |  | ppbv | 1 | 3/21/2014 |
| Toluene                   | 0.42 | 0.35 |  | ppbv | 1 | 3/21/2014 |
| trans-1,2-Dichloroethene  | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| trans-1,3-Dichloropropene | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Trichloroethene           | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Trichlorofluoromethane    | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Vinyl acetate             | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| Vinyl chloride            | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Xylenes, Total            | ND   | 1.1  |  | ppbv | 1 | 3/21/2014 |

|   |              |  |  |  |                             |                    |
|---|--------------|--|--|--|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
|---|--------------|--|--|--|-----------------------------|--------------------|

|                           |    |     |  |       |   |           |
|---------------------------|----|-----|--|-------|---|-----------|
| 1,1,1-Trichloroethane     | ND | 1.9 |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2,2-Tetrachloroethane | ND | 2.5 |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2-Trichloroethane     | ND | 1.9 |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethane        | ND | 1.4 |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethene        | ND | 1.4 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trichlorobenzene    | ND | 2.6 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trimethylbenzene    | ND | 1.8 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dibromoethane         | ND | 2.6 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichlorobenzene       | ND | 2.1 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloroethane        | ND | 1.4 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloropropane       | ND | 1.6 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3,5-Trimethylbenzene    | ND | 1.8 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Butadiene             | ND | 0.7 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Dichlorobenzene       | ND | 2.1 |  | µg/m³ | 1 | 3/21/2014 |

**Qualifiers:**

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\* - Non-accredited parameter

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

| Volatil Organic Compounds in Air by GC/MS | TO-15 |      | Prep Date: 3/21/2014 | Analyst: VP |           |           |
|---|-------|------|----------------------|-------------|-----------|-----------|
| 1,4-Dichlorobenzene                       | ND    | 2.1  | µg/m³                | 1           | 3/21/2014 |           |
| 1,4-Dioxane                               | ND    | 3.2  | µg/m³                | 1           | 3/21/2014 |           |
| 2-Butanone                                | ND    | 2.6  | µg/m³                | 1           | 3/21/2014 |           |
| 2-Hexanone                                | ND    | 7.2  | µg/m³                | 1           | 3/21/2014 |           |
| 4-Ethyltoluene                            | ND    | 1.8  | µg/m³                | 1           | 3/21/2014 |           |
| 4-Methyl-2-pentanone                      | ND    | 7.2  | µg/m³                | 1           | 3/21/2014 |           |
| Acetone                                   | ND    | 8.5  | *                    | µg/m³       | 1         | 3/21/2014 |
| Benzene                                   | ND    | 1.1  | µg/m³                | 1           | 3/21/2014 |           |
| Benzyl chloride                           | ND    | 4.6  | µg/m³                | 1           | 3/21/2014 |           |
| Bromodichloromethane                      | ND    | 2.3  | µg/m³                | 1           | 3/21/2014 |           |
| Bromoform                                 | ND    | 9.2  | µg/m³                | 1           | 3/21/2014 |           |
| Bromomethane                              | ND    | 3.3  | µg/m³                | 1           | 3/21/2014 |           |
| Carbon disulfide                          | ND    | 1.1  | µg/m³                | 1           | 3/21/2014 |           |
| Carbon tetrachloride                      | ND    | 2.3  | µg/m³                | 1           | 3/21/2014 |           |
| Chlorobenzene                             | ND    | 1.6  | µg/m³                | 1           | 3/21/2014 |           |
| Chloroethane                              | ND    | 0.88 | µg/m³                | 1           | 3/21/2014 |           |
| Chloroform                                | ND    | 1.8  | µg/m³                | 1           | 3/21/2014 |           |
| Chloromethane                             | ND    | 1.8  | µg/m³                | 1           | 3/21/2014 |           |
| cis-1,2-Dichloroethene                    | ND    | 1.4  | µg/m³                | 1           | 3/21/2014 |           |
| cis-1,3-Dichloropropene                   | ND    | 1.6  | µg/m³                | 1           | 3/21/2014 |           |
| Cyclohexane                               | ND    | 1.2  | µg/m³                | 1           | 3/21/2014 |           |
| Dibromochloromethane                      | ND    | 3    | µg/m³                | 1           | 3/21/2014 |           |
| Dichlorodifluoromethane                   | 2.2   | 1.8  | µg/m³                | 1           | 3/21/2014 |           |
| Ethyl acetate                             | ND    | 1.2  | µg/m³                | 1           | 3/21/2014 |           |
| Ethylbenzene                              | ND    | 1.6  | µg/m³                | 1           | 3/21/2014 |           |
| Freon-113                                 | ND    | 2.6  | µg/m³                | 1           | 3/21/2014 |           |
| Freon-114                                 | ND    | 12   | µg/m³                | 1           | 3/21/2014 |           |
| Heptane                                   | ND    | 1.4  | µg/m³                | 1           | 3/21/2014 |           |
| Hexachlorobutadiene                       | ND    | 3.7  | µg/m³                | 1           | 3/21/2014 |           |
| Hexane                                    | ND    | 3.2  | µg/m³                | 1           | 3/21/2014 |           |
| Isopropyl Alcohol                         | ND    | 4.4  | µg/m³                | 1           | 3/21/2014 |           |
| m,p-Xylene                                | ND    | 3    | µg/m³                | 1           | 3/21/2014 |           |
| Methyl tert-butyl ether                   | ND    | 1.2  | µg/m³                | 1           | 3/21/2014 |           |
| Methylene chloride                        | ND    | 12   | µg/m³                | 1           | 3/21/2014 |           |
| o-Xylene                                  | ND    | 1.6  | µg/m³                | 1           | 3/21/2014 |           |
| Propene                                   | ND    | 6    | µg/m³                | 1           | 3/21/2014 |           |
| Styrene                                   | ND    | 1.6  | µg/m³                | 1           | 3/21/2014 |           |
| Tetrachloroethene                         | ND    | 2.5  | µg/m³                | 1           | 3/21/2014 |           |

**Qualifiers:**

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\* - Non-accredited parameter

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S - Spike Recovery outside accepted recovery limits

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |  |       |                      |             |
|---|--------------|------|--|-------|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |  |       | Prep Date: 3/21/2014 | Analyst: VP |
| Tetrahydrofuran                                   | ND           | 2.6  |  | µg/m³ | 1                    | 3/21/2014   |
| Toluene   | 1.6          | 1.4  |  | µg/m³ | 1                    | 3/21/2014   |
| trans-1,2-Dichloroethene                          | ND           | 1.4  |  | µg/m³ | 1                    | 3/21/2014   |
| trans-1,3-Dichloropropene                         | ND           | 1.6  |  | µg/m³ | 1                    | 3/21/2014   |
| Trichloroethene                                   | ND           | 1.9  |  | µg/m³ | 1                    | 3/21/2014   |
| Trichlorofluoromethane                            | ND           | 1.9  |  | µg/m³ | 1                    | 3/21/2014   |
| Vinyl acetate                                     | ND           | 12   |  | µg/m³ | 1                    | 3/21/2014   |
| Vinyl chloride                                    | ND           | 0.88 |  | µg/m³ | 1                    | 3/21/2014   |
| Xylenes, Total                                    | ND           | 4.6  |  | µg/m³ | 1                    | 3/21/2014   |

**Qualifiers:**

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
HT - Sample received past holding time  
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E - Value above quantitation range  
H - Holding time exceeded

|  |  |  |  |   |  |
|--|--|--|--|---|--|
| Company: <b>Western Solutions</b><br>Project Number: <b>20405.012,005.2306.00</b> Client Tracking No.:<br>Project Name: <b>BKG</b><br>Project Location: <b>Kankakee, IL</b><br>Sampler(s): <b>BR</b><br>Report To: <b>Lisa Graczyk</b> Phone: <b>312-424-3339</b><br>QC Level: 1    2    3    4    Fax:    e-mail: <b>lgaczyk@westernsolutions.com</b> |  |  |  | P.O. No.:<br>Quote No.:   |  |
| Turn Around<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">24 hr</div>  |  |  |  | Results Needed<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">any/pm</div> |  |
| Lab No.:<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">001</div>   |  |  |  | Remarks<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">002</div>           |  |
| Lab No.:<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">003</div>   |  |  |  | Remarks<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">004</div>           |  |
| Lab No.:<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">005</div>   |  |  |  | Remarks<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">006</div>           |  |

| Client Sample Number/Description:   | Date Taken | Time Taken | Matrix | Comp | Grab  | Preserv | No. of Containers |
|---|------------|------------|--------|------|-------|---------|-------------------|
| 1525 Hawkens  | 3/20/14    | 1100       | N      |      | X HCl |         | 4                 |
| 1756 IL-113   | 3/20/14    | 1130       | W      |      | X HCl |         | 4                 |
| BKG-Summa-N-032114  | 3/21/14    |            | air    |      | X     |         | 1                 |
| BKG-Summa-W-032114  | 3/21/14    |            | air    |      | X     |         | 1                 |
| BKG-Summa-E-032114  | 3/21/14    |            | air    |      | X     |         | 1                 |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;">BKG-Summa-E-032114</div> |            |            |        |      |       |         |                   |

|   |                                |
|---|--------------------------------|
| Relinquished by: (Signature) <i>Bennett Johnson</i> | Date/Time: <b>3/21/14 1300</b> |
| Received by: (Signature) <i>[Signature]</i>         | Date/Time: <b>3/21/14 1340</b> |
| Relinquished by: (Signature)                        | Date/Time:                     |
| Received by: (Signature)                            | Date/Time:                     |
| Relinquished by: (Signature)                        | Date/Time:                     |
| Received by: (Signature)                            | Date/Time:                     |

|   |  |  |
|---|--|--|
| Laboratory Work Order No.:<br><div style="border: 1px solid black; padding: 5px; display: inline-block;">14030659</div> |  | Received on Ice: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>Temperature: <b>3.2 °C</b> |
|---|--|--|

## Sample Receipt Checklist

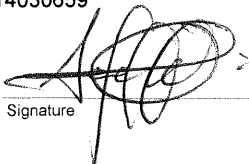
Client Name **WESTON CHICAGO**

Date and Time Received: **3/21/2014 1:40:00 PM**

Work Order Number **14030659**

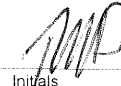
Received by: **DO**

Checklist completed by:

  
Signature

**3/21/14**  
Date

Reviewed by:

  
Initials

**3/24/14**  
Date

Matrix:

Carrier name Client Delivered

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels/containers?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container or Temp Blank temperature in compliance?

Yes ☒

No ☐

Temperature **3.2 °C**

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - Samples pH checked?

Yes ☐

No ☐

Checked by: \_\_\_\_\_

Water - Samples properly preserved?

Yes ☐

No ☐

pH Adjusted? \_\_\_\_\_

Any No response must be detailed in the comments section below.

Comments: \_\_\_\_\_

Client / Person  
contacted: \_\_\_\_\_

Date contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Response: \_\_\_\_\_

# Analytical Run Summary

Run ID: VOA-6\_140321A (R97360)

Analyst VP

Printed: 24-Mar-14

| SeqNo   | Sample ID        | Type | Test Code | Batch  | DF | File ID    | Date/Time Analyzed |
|---------|------------------|------|-----------|--------|----|------------|--------------------|
| 2630514 | CCV032114-6 5.0  | CCV  | TO_15A+   | R97360 | 1  | 03211401.D | 03/21/2014 11:46   |
| 2630513 | BFB032114-6      | TUNE | BFB       | R97360 | 1  | 03211401.D | 03/21/2014 11:46   |
| 2631323 | MB032114-6       | MBLK | TO_15UG   | R97360 | 1  | 03211402.D | 03/21/2014 12:23   |
| 2630515 | MB032114-6       | MBLK | TO_15A+   | R97360 | 1  | 03211402.D | 03/21/2014 12:23   |
| 2630602 | MB032114-6       | MBLK | TO_15MG+  | R97360 | 1  | 03211402.D | 03/21/2014 12:23   |
| 2631324 | LCS032114-6 5.0  | LCS  | TO_15UG   | R97360 | 1  | 03211403.D | 03/21/2014 13:25   |
| 2630521 | LCS032114-6 5.0  | LCS  | TO_15A+   | R97360 | 1  | 03211403.D | 03/21/2014 13:25   |
| 2630603 | LCS032114-6 5.0  | LCS  | TO_15MG+  | R97360 | 1  | 03211403.D | 03/21/2014 13:25   |
| 2631325 | LCSD032114-6 5.0 | LCSD | TO_15UG   | R97360 | 1  | 03211404.D | 03/21/2014 14:02   |
| 2630528 | LCSD032114-6 5.0 | LCSD | TO_15A+   | R97360 | 1  | 03211404.D | 03/21/2014 14:02   |
| 2630604 | LCSD032114-6 5.0 | LCSD | TO_15MG+  | R97360 | 1  | 03211404.D | 03/21/2014 14:02   |
| 2630605 | 14030659-003A    | SAMP | TO_15MG+  | 75257  | 1  | 03211405.D | 03/21/2014 16:08   |
| 2631326 | 14030659-003A    | SAMP | TO_15UG   | 75257  | 1  | 03211405.D | 03/21/2014 16:08   |
| 2631317 | 14030659-003A    | SAMP | TO_15A    | 75257  | 1  | 03211405.D | 03/21/2014 16:08   |
| 2630606 | 14030659-004A    | SAMP | TO_15MG+  | 75257  | 1  | 03211406.D | 03/21/2014 16:45   |
| 2631318 | 14030659-004A    | SAMP | TO_15A    | 75257  | 1  | 03211406.D | 03/21/2014 16:45   |
| 2631327 | 14030659-004A    | SAMP | TO_15UG   | 75257  | 1  | 03211406.D | 03/21/2014 16:45   |
| 2631328 | 14030659-005A    | SAMP | TO_15UG   | 75257  | 1  | 03211407.D | 03/21/2014 17:22   |
| 2631320 | 14030659-005A    | SAMP | TO_15A    | 75257  | 1  | 03211407.D | 03/21/2014 17:22   |
| 2630607 | 14030659-005A    | SAMP | TO_15MG+  | 75257  | 1  | 03211407.D | 03/21/2014 17:22   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97360

| Sample ID                 | <b>MB032114-6</b> | SampType: | <b>MBLK</b>   | TestCode:   | <b>TO_15A+</b> | Units:   | <b>ppbv</b> | Prep Date:     |                  | Run ID:  | <b>VOA-6_140321A</b> |
|---------------------------|-------------------|-----------|---------------|-------------|----------------|----------|-------------|----------------|------------------|----------|----------------------|
| Client ID:                | <b>ZZZZZ</b>      | Batch ID: | <b>R97360</b> | TestNo:     | <b>TO-15</b>   |          |             | Analysis Date: | <b>3/21/2014</b> | SeqNo:   | <b>2630515</b>       |
| Analyte                   | Result            | PQL       | SPK value     | SPK Ref Val | %REC           | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual                 |
| 1,1,1-Trichloroethane     | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,1,2,2-Tetrachloroethane | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,1,2-Trichloroethane     | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,1-Dichloroethane        | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,1-Dichloroethene        | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,2,4-Trichlorobenzene    | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,2,4-Trimethylbenzene    | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,2-Dibromoethane         | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,2-Dichlorobenzene       | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,2-Dichloroethane        | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,2-Dichloropropane       | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,3,5-Trimethylbenzene    | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,3-Butadiene             | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,3-Dichlorobenzene       | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,4-Dichlorobenzene       | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 1,4-Dioxane               | ND                | 1.0       |               |             |                |          |             |                |                  |          |                      |
| 2-Butanone                | ND                | 0.50      |               |             |                |          |             |                |                  |          |                      |
| 2-Hexanone                | ND                | 1.0       |               |             |                |          |             |                |                  |          |                      |
| 4-Ethyltoluene            | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| 4-Methyl-2-pentanone      | ND                | 1.0       |               |             |                |          |             |                |                  |          |                      |
| Acetone                   | ND                | 2.0       |               |             |                |          |             |                |                  |          | *                    |
| Benzene                   | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| Benzyl chloride           | ND                | 0.50      |               |             |                |          |             |                |                  |          |                      |
| Bromodichloromethane      | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| Bromoform                 | ND                | 0.50      |               |             |                |          |             |                |                  |          |                      |
| Bromomethane              | 0.05              | 0.50      |               |             |                |          |             |                |                  |          | J                    |
| Carbon disulfide          | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| Carbon tetrachloride      | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| Chlorobenzene             | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |
| Chloroethane              | ND                | 0.20      |               |             |                |          |             |                |                  |          |                      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |



**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|            |            |           |        |           |             |        |          |                |             |         |               |      |
|------------|------------|-----------|--------|-----------|-------------|--------|----------|----------------|-------------|---------|---------------|------|
| Sample ID  | MB032114-6 | SampType: | MBLK   | TestCode: | TO_15A+     | Units: | ppbv     | Prep Date:     |             | Run ID: | VOA-6_140321A |      |
| Client ID: | ZZZZZ      | Batch ID: | R97360 | TestNo:   | TO-15       |        |          | Analysis Date: | 3/21/2014   | SeqNo:  | 2630515       |      |
| Analyte    |            | Result    | PQL    | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD    | RPDLimit      | Qual |

|                           |    |      |
|---------------------------|----|------|
| Chloroform                | ND | 0.20 |
| Chloromethane             | ND | 0.50 |
| cis-1,2-Dichloroethene    | ND | 0.20 |
| cis-1,3-Dichloropropene   | ND | 0.20 |
| Cyclohexane               | ND | 0.20 |
| Dibromochloromethane      | ND | 0.20 |
| Dichlorodifluoromethane   | ND | 0.20 |
| Ethyl acetate             | ND | 0.20 |
| Ethylbenzene              | ND | 0.20 |
| Freon-113                 | ND | 0.20 |
| Freon-114                 | ND | 1.0  |
| Heptane                   | ND | 0.20 |
| Hexachlorobutadiene       | ND | 0.20 |
| Hexane                    | ND | 0.50 |
| Isopropyl Alcohol         | ND | 1.0  |
| m,p-Xylene                | ND | 0.40 |
| Methyl tert-butyl ether   | ND | 0.20 |
| Methylene chloride        | ND | 2.0  |
| o-Xylene                  | ND | 0.20 |
| Propene                   | ND | 2.0  |
| Styrene                   | ND | 0.20 |
| Tetrachloroethene         | ND | 0.20 |
| Tetrahydrofuran           | ND | 0.50 |
| Toluene                   | ND | 0.20 |
| trans-1,2-Dichloroethene  | ND | 0.20 |
| trans-1,3-Dichloropropene | ND | 0.20 |
| Trichloroethene           | ND | 0.20 |
| Trichlorofluoromethane    | ND | 0.20 |
| Vinyl acetate             | ND | 2.0  |
| Vinyl chloride            | ND | 0.20 |
| Xylenes, Total            | ND | 0.60 |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|                           |                  |               |                   |             |                          |          |           |             |                       |          |      |
|---------------------------|------------------|---------------|-------------------|-------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID                 | LCS032114-6 5.0  | SampType: LCS | TestCode: TO_15A+ | Units: ppbv | Prep Date:               |          |           |             | Run ID: VOA-6_140321A |          |      |
| Client ID: ZZZZZ          | Batch ID: R97360 | TestNo: TO-15 |                   |             | Analysis Date: 3/21/2014 |          |           |             | SeqNo: 2630521        |          |      |
| Analyte                   | Result           | PQL           | SPK value         | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| 1,1,1-Trichloroethane     | 4.09             | 0.20          | 5                 | 0           | 81.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,1,2,2-Tetrachloroethane | 3.98             | 0.20          | 5                 | 0           | 79.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,1,2-Trichloroethane     | 4.25             | 0.20          | 5                 | 0           | 85                       | 70       | 130       | 0           | 0                     |          |      |
| 1,1-Dichloroethane        | 4.66             | 0.20          | 5                 | 0           | 93.2                     | 70       | 130       | 0           | 0                     |          |      |
| 1,1-Dichloroethene        | 4.69             | 0.20          | 5                 | 0           | 93.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2,4-Trichlorobenzene    | 4.98             | 0.20          | 5                 | 0           | 99.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2,4-Trimethylbenzene    | 4.48             | 0.20          | 5                 | 0           | 89.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dibromoethane         | 4.38             | 0.20          | 5                 | 0           | 87.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichlorobenzene       | 4.24             | 0.20          | 5                 | 0           | 84.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichloroethane        | 4.04             | 0.20          | 5                 | 0           | 80.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichloropropane       | 4.11             | 0.20          | 5                 | 0           | 82.2                     | 70       | 130       | 0           | 0                     |          |      |
| 1,3,5-Trimethylbenzene    | 4.34             | 0.20          | 5                 | 0           | 86.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,3-Butadiene             | 4.6              | 0.20          | 5                 | 0           | 92                       | 70       | 130       | 0           | 0                     |          |      |
| 1,3-Dichlorobenzene       | 4.28             | 0.20          | 5                 | 0           | 85.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,4-Dichlorobenzene       | 4.15             | 0.20          | 5                 | 0           | 83                       | 70       | 130       | 0           | 0                     |          |      |
| 1,4-Dioxane               | 4.79             | 1.0           | 5                 | 0           | 95.8                     | 70       | 130       | 0           | 0                     |          |      |
| 2-Butanone                | 4.74             | 0.50          | 5                 | 0           | 94.8                     | 70       | 130       | 0           | 0                     |          |      |
| 2-Hexanone                | 4.84             | 1.0           | 5                 | 0           | 96.8                     | 70       | 130       | 0           | 0                     |          |      |
| 4-Ethyltoluene            | 4.42             | 0.20          | 5                 | 0           | 88.4                     | 70       | 130       | 0           | 0                     |          |      |
| 4-Methyl-2-pentanone      | 3.91             | 1.0           | 5                 | 0           | 78.2                     | 70       | 130       | 0           | 0                     |          |      |
| Acetone                   | 4.24             | 2.0           | 5                 | 0           | 84.8                     | 70       | 130       | 0           | 0                     |          | *    |
| Benzene                   | 3.74             | 0.20          | 5                 | 0           | 74.8                     | 70       | 130       | 0           | 0                     |          |      |
| Benzyl chloride           | 3.9              | 0.50          | 5                 | 0           | 78                       | 70       | 130       | 0           | 0                     |          |      |
| Bromodichloromethane      | 4.24             | 0.20          | 5                 | 0           | 84.8                     | 70       | 130       | 0           | 0                     |          |      |
| Bromoform                 | 4.39             | 0.50          | 5                 | 0           | 87.8                     | 70       | 130       | 0           | 0                     |          |      |
| Bromomethane              | 4.59             | 0.50          | 5                 | 0.05        | 90.8                     | 70       | 130       | 0           | 0                     |          |      |
| Carbon disulfide          | 4.85             | 0.20          | 5                 | 0           | 97                       | 70       | 130       | 0           | 0                     |          |      |
| Carbon tetrachloride      | 4.07             | 0.20          | 5                 | 0           | 81.4                     | 70       | 130       | 0           | 0                     |          |      |
| Chlorobenzene             | 3.72             | 0.20          | 5                 | 0           | 74.4                     | 70       | 130       | 0           | 0                     |          |      |
| Chloroethane              | 4.79             | 0.20          | 5                 | 0           | 95.8                     | 70       | 130       | 0           | 0                     |          |      |
| Chloroform                | 4                | 0.20          | 5                 | 0           | 80                       | 70       | 130       | 0           | 0                     |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97360

| Sample ID                 | <b>LCS032114-6 5.0</b> | SampType: | <b>LCS</b>    | TestCode:   | <b>TO_15A+</b> | Units:   | <b>ppbv</b> | Prep Date:     |                  | Run ID:  | <b>VOA-6_140321A</b> |
|---------------------------|------------------------|-----------|---------------|-------------|----------------|----------|-------------|----------------|------------------|----------|----------------------|
| Client ID:                | <b>ZZZZZ</b>           | Batch ID: | <b>R97360</b> | TestNo:     | <b>TO-15</b>   |          |             | Analysis Date: | <b>3/21/2014</b> | SeqNo:   | <b>2630521</b>       |
| Analyte                   | Result                 | PQL       | SPK value     | SPK Ref Val | %REC           | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual                 |
| Chloromethane             | 4.58                   | 0.50      | 5             | 0           | 91.6           | 70       | 130         | 0              | 0                |          |                      |
| cis-1,2-Dichloroethene    | 4.74                   | 0.20      | 5             | 0           | 94.8           | 70       | 130         | 0              | 0                |          |                      |
| cis-1,3-Dichloropropene   | 4.42                   | 0.20      | 5             | 0           | 88.4           | 70       | 130         | 0              | 0                |          |                      |
| Cyclohexane               | 4.01                   | 0.20      | 5             | 0           | 80.2           | 70       | 130         | 0              | 0                |          |                      |
| Dibromochloromethane      | 4.68                   | 0.20      | 5             | 0           | 93.6           | 70       | 130         | 0              | 0                |          |                      |
| Dichlorodifluoromethane   | 4.66                   | 0.20      | 5             | 0           | 93.2           | 70       | 130         | 0              | 0                |          |                      |
| Ethyl acetate             | 3.67                   | 0.20      | 5             | 0           | 73.4           | 70       | 130         | 0              | 0                |          |                      |
| Ethylbenzene              | 3.94                   | 0.20      | 5             | 0           | 78.8           | 70       | 130         | 0              | 0                |          |                      |
| Freon-113                 | 4.63                   | 0.20      | 5             | 0           | 92.6           | 70       | 130         | 0              | 0                |          |                      |
| Freon-114                 | 4.84                   | 1.0       | 5             | 0           | 96.8           | 70       | 130         | 0              | 0                |          |                      |
| Heptane                   | 4.05                   | 0.20      | 5             | 0           | 81             | 70       | 130         | 0              | 0                |          |                      |
| Hexachlorobutadiene       | 4.89                   | 0.20      | 5             | 0           | 97.8           | 70       | 130         | 0              | 0                |          |                      |
| Hexane                    | 4.77                   | 0.50      | 5             | 0           | 95.4           | 70       | 130         | 0              | 0                |          |                      |
| Isopropyl Alcohol         | 4.42                   | 1.0       | 5             | 0           | 88.4           | 70       | 130         | 0              | 0                |          |                      |
| m,p-Xylene                | 8.03                   | 0.40      | 10            | 0           | 80.3           | 70       | 130         | 0              | 0                |          |                      |
| Methyl tert-butyl ether   | 4.79                   | 0.20      | 5             | 0           | 95.8           | 70       | 130         | 0              | 0                |          |                      |
| Methylene chloride        | 4.46                   | 2.0       | 5             | 0           | 89.2           | 70       | 130         | 0              | 0                |          |                      |
| o-Xylene                  | 4.08                   | 0.20      | 5             | 0           | 81.6           | 70       | 130         | 0              | 0                |          |                      |
| Propene                   | 4.05                   | 2.0       | 5             | 0           | 81             | 70       | 130         | 0              | 0                |          |                      |
| Styrene                   | 4.35                   | 0.20      | 5             | 0           | 87             | 70       | 130         | 0              | 0                |          |                      |
| Tetrachloroethene         | 4.36                   | 0.20      | 5             | 0           | 87.2           | 70       | 130         | 0              | 0                |          |                      |
| Tetrahydrofuran           | 3.69                   | 0.50      | 5             | 0           | 73.8           | 70       | 130         | 0              | 0                |          |                      |
| Toluene                   | 4.21                   | 0.20      | 5             | 0           | 84.2           | 70       | 130         | 0              | 0                |          |                      |
| trans-1,2-Dichloroethene  | 4.89                   | 0.20      | 5             | 0           | 97.8           | 70       | 130         | 0              | 0                |          |                      |
| trans-1,3-Dichloropropene | 3.99                   | 0.20      | 5             | 0           | 79.8           | 70       | 130         | 0              | 0                |          |                      |
| Trichloroethene           | 4.22                   | 0.20      | 5             | 0           | 84.4           | 70       | 130         | 0              | 0                |          |                      |
| Trichlorofluoromethane    | 4.73                   | 0.20      | 5             | 0           | 94.6           | 70       | 130         | 0              | 0                |          |                      |
| Vinyl acetate             | 4.49                   | 2.0       | 5             | 0           | 89.8           | 70       | 130         | 0              | 0                |          |                      |
| Vinyl chloride            | 4.89                   | 0.20      | 5             | 0           | 97.8           | 70       | 130         | 0              | 0                |          |                      |
| Xylenes, Total            | 12.1                   | 0.60      | 15            | 0           | 80.7           | 70       | 130         | 0              | 0                |          |                      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|                           |                  |                |                   |             |                          |          |           |             |                       |          |      |
|---------------------------|------------------|----------------|-------------------|-------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID                 | LCSD032114-6 5.0 | SampType: LCSD | TestCode: TO_15A+ | Units: ppbv | Prep Date:               |          |           |             | Run ID: VOA-6_140321A |          |      |
| Client ID: ZZZZZ          | Batch ID: R97360 | TestNo: TO-15  |                   |             | Analysis Date: 3/21/2014 |          |           |             | SeqNo: 2630528        |          |      |
| Analyte                   | Result           | PQL            | SPK value         | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| 1,1,1-Trichloroethane     | 4.11             | 0.20           | 5                 | 0           | 82.2                     | 70       | 130       | 4.09        | 0.488                 | 25       |      |
| 1,1,2,2-Tetrachloroethane | 3.99             | 0.20           | 5                 | 0           | 79.8                     | 70       | 130       | 3.98        | 0.251                 | 25       |      |
| 1,1,2-Trichloroethane     | 4.28             | 0.20           | 5                 | 0           | 85.6                     | 70       | 130       | 4.25        | 0.703                 | 25       |      |
| 1,1-Dichloroethane        | 4.65             | 0.20           | 5                 | 0           | 93                       | 70       | 130       | 4.66        | 0.215                 | 25       |      |
| 1,1-Dichloroethene        | 4.73             | 0.20           | 5                 | 0           | 94.6                     | 70       | 130       | 4.69        | 0.849                 | 25       |      |
| 1,2,4-Trichlorobenzene    | 4.93             | 0.20           | 5                 | 0           | 98.6                     | 70       | 130       | 4.98        | 1.01                  | 25       |      |
| 1,2,4-Trimethylbenzene    | 4.41             | 0.20           | 5                 | 0           | 88.2                     | 70       | 130       | 4.48        | 1.57                  | 25       |      |
| 1,2-Dibromoethane         | 4.43             | 0.20           | 5                 | 0           | 88.6                     | 70       | 130       | 4.38        | 1.14                  | 25       |      |
| 1,2-Dichlorobenzene       | 4.21             | 0.20           | 5                 | 0           | 84.2                     | 70       | 130       | 4.24        | 0.710                 | 25       |      |
| 1,2-Dichloroethane        | 4.09             | 0.20           | 5                 | 0           | 81.8                     | 70       | 130       | 4.04        | 1.23                  | 25       |      |
| 1,2-Dichloropropane       | 4.17             | 0.20           | 5                 | 0           | 83.4                     | 70       | 130       | 4.11        | 1.45                  | 25       |      |
| 1,3,5-Trimethylbenzene    | 4.27             | 0.20           | 5                 | 0           | 85.4                     | 70       | 130       | 4.34        | 1.63                  | 25       |      |
| 1,3-Butadiene             | 4.62             | 0.20           | 5                 | 0           | 92.4                     | 70       | 130       | 4.6         | 0.434                 | 25       |      |
| 1,3-Dichlorobenzene       | 4.25             | 0.20           | 5                 | 0           | 85                       | 70       | 130       | 4.28        | 0.703                 | 25       |      |
| 1,4-Dichlorobenzene       | 4.13             | 0.20           | 5                 | 0           | 82.6                     | 70       | 130       | 4.15        | 0.483                 | 25       |      |
| 1,4-Dioxane               | 4.79             | 1.0            | 5                 | 0           | 95.8                     | 70       | 130       | 4.79        | 0                     | 25       |      |
| 2-Butanone                | 4.84             | 0.50           | 5                 | 0           | 96.8                     | 70       | 130       | 4.74        | 2.09                  | 25       |      |
| 2-Hexanone                | 4.84             | 1.0            | 5                 | 0           | 96.8                     | 70       | 130       | 4.84        | 0                     | 25       |      |
| 4-Ethyltoluene            | 4.34             | 0.20           | 5                 | 0           | 86.8                     | 70       | 130       | 4.42        | 1.83                  | 25       |      |
| 4-Methyl-2-pentanone      | 3.89             | 1.0            | 5                 | 0           | 77.8                     | 70       | 130       | 3.91        | 0.513                 | 25       |      |
| Acetone                   | 4.28             | 2.0            | 5                 | 0           | 85.6                     | 70       | 130       | 4.24        | 0.939                 | 25       | *    |
| Benzene                   | 3.77             | 0.20           | 5                 | 0           | 75.4                     | 70       | 130       | 3.74        | 0.799                 | 25       |      |
| Benzyl chloride           | 4.19             | 0.50           | 5                 | 0           | 83.8                     | 70       | 130       | 3.9         | 7.17                  | 25       |      |
| Bromodichloromethane      | 4.32             | 0.20           | 5                 | 0           | 86.4                     | 70       | 130       | 4.24        | 1.87                  | 25       |      |
| Bromoform                 | 4.54             | 0.50           | 5                 | 0           | 90.8                     | 70       | 130       | 4.39        | 3.36                  | 25       |      |
| Bromomethane              | 4.64             | 0.50           | 5                 | 0.05        | 91.8                     | 70       | 130       | 4.59        | 1.08                  | 25       |      |
| Carbon disulfide          | 4.85             | 0.20           | 5                 | 0           | 97                       | 70       | 130       | 4.85        | 0                     | 25       |      |
| Carbon tetrachloride      | 4.2              | 0.20           | 5                 | 0           | 84                       | 70       | 130       | 4.07        | 3.14                  | 25       |      |
| Chlorobenzene             | 3.72             | 0.20           | 5                 | 0           | 74.4                     | 70       | 130       | 3.72        | 0                     | 25       |      |
| Chloroethane              | 4.79             | 0.20           | 5                 | 0           | 95.8                     | 70       | 130       | 4.79        | 0                     | 25       |      |
| Chloroform                | 4.02             | 0.20           | 5                 | 0           | 80.4                     | 70       | 130       | 4           | 0.499                 | 25       |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|                           |                  |                |                   |             |                          |          |           |             |                       |          |      |
|---------------------------|------------------|----------------|-------------------|-------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID                 | LCSD032114-6 5.0 | SampType: LCSD | TestCode: TO_15A+ | Units: ppbv | Prep Date:               |          |           |             | Run ID: VOA-6_140321A |          |      |
| Client ID: ZZZZZ          | Batch ID: R97360 | TestNo: TO-15  |                   |             | Analysis Date: 3/21/2014 |          |           |             | SeqNo: 2630528        |          |      |
| Analyte                   | Result           | PQL            | SPK value         | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Chloromethane             | 4.33             | 0.50           | 5                 | 0           | 86.6                     | 70       | 130       | 4.58        | 5.61                  | 25       |      |
| cis-1,2-Dichloroethene    | 4.8              | 0.20           | 5                 | 0           | 96                       | 70       | 130       | 4.74        | 1.26                  | 25       |      |
| cis-1,3-Dichloropropene   | 4.53             | 0.20           | 5                 | 0           | 90.6                     | 70       | 130       | 4.42        | 2.46                  | 25       |      |
| Cyclohexane               | 4.02             | 0.20           | 5                 | 0           | 80.4                     | 70       | 130       | 4.01        | 0.249                 | 25       |      |
| Dibromochloromethane      | 4.77             | 0.20           | 5                 | 0           | 95.4                     | 70       | 130       | 4.68        | 1.90                  | 25       |      |
| Dichlorodifluoromethane   | 4.66             | 0.20           | 5                 | 0           | 93.2                     | 70       | 130       | 4.66        | 0                     | 25       |      |
| Ethyl acetate             | 3.69             | 0.20           | 5                 | 0           | 73.8                     | 70       | 130       | 3.67        | 0.543                 | 25       |      |
| Ethylbenzene              | 3.94             | 0.20           | 5                 | 0           | 78.8                     | 70       | 130       | 3.94        | 0                     | 25       |      |
| Freon-113                 | 4.63             | 0.20           | 5                 | 0           | 92.6                     | 70       | 130       | 4.63        | 0                     | 25       |      |
| Freon-114                 | 4.93             | 1.0            | 5                 | 0           | 98.6                     | 70       | 130       | 4.84        | 1.84                  | 25       |      |
| Heptane                   | 4.05             | 0.20           | 5                 | 0           | 81                       | 70       | 130       | 4.05        | 0                     | 25       |      |
| Hexachlorobutadiene       | 4.76             | 0.20           | 5                 | 0           | 95.2                     | 70       | 130       | 4.89        | 2.69                  | 25       |      |
| Hexane                    | 4.83             | 0.50           | 5                 | 0           | 96.6                     | 70       | 130       | 4.77        | 1.25                  | 25       |      |
| Isopropyl Alcohol         | 4.72             | 1.0            | 5                 | 0           | 94.4                     | 70       | 130       | 4.42        | 6.56                  | 25       |      |
| m,p-Xylene                | 7.98             | 0.40           | 10                | 0           | 79.8                     | 70       | 130       | 8.03        | 0.625                 | 25       |      |
| Methyl tert-butyl ether   | 4.86             | 0.20           | 5                 | 0           | 97.2                     | 70       | 130       | 4.79        | 1.45                  | 25       |      |
| Methylene chloride        | 4.54             | 2.0            | 5                 | 0           | 90.8                     | 70       | 130       | 4.46        | 1.78                  | 25       |      |
| o-Xylene                  | 4.05             | 0.20           | 5                 | 0           | 81                       | 70       | 130       | 4.08        | 0.738                 | 25       |      |
| Propene                   | 4.13             | 2.0            | 5                 | 0           | 82.6                     | 70       | 130       | 4.05        | 1.96                  | 25       |      |
| Styrene                   | 4.41             | 0.20           | 5                 | 0           | 88.2                     | 70       | 130       | 4.35        | 1.37                  | 25       |      |
| Tetrachloroethene         | 4.36             | 0.20           | 5                 | 0           | 87.2                     | 70       | 130       | 4.36        | 0                     | 25       |      |
| Tetrahydrofuran           | 3.78             | 0.50           | 5                 | 0           | 75.6                     | 70       | 130       | 3.69        | 2.41                  | 25       |      |
| Toluene                   | 4.22             | 0.20           | 5                 | 0           | 84.4                     | 70       | 130       | 4.21        | 0.237                 | 25       |      |
| trans-1,2-Dichloroethene  | 4.83             | 0.20           | 5                 | 0           | 96.6                     | 70       | 130       | 4.89        | 1.23                  | 25       |      |
| trans-1,3-Dichloropropene | 4.11             | 0.20           | 5                 | 0           | 82.2                     | 70       | 130       | 3.99        | 2.96                  | 25       |      |
| Trichloroethene           | 4.25             | 0.20           | 5                 | 0           | 85                       | 70       | 130       | 4.22        | 0.708                 | 25       |      |
| Trichlorofluoromethane    | 4.69             | 0.20           | 5                 | 0           | 93.8                     | 70       | 130       | 4.73        | 0.849                 | 25       |      |
| Vinyl acetate             | 4.73             | 2.0            | 5                 | 0           | 94.6                     | 70       | 130       | 4.49        | 5.21                  | 25       |      |
| Vinyl chloride            | 4.88             | 0.20           | 5                 | 0           | 97.6                     | 70       | 130       | 4.89        | 0.205                 | 25       |      |
| Xylenes, Total            | 12.02            | 0.60           | 15                | 0           | 80.1                     | 70       | 130       | 12.1        | 0.663                 | 25       |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|                           |            |                  |                   |              |                          |                       |           |             |      |          |      |
|---------------------------|------------|------------------|-------------------|--------------|--------------------------|-----------------------|-----------|-------------|------|----------|------|
| Sample ID                 | MB032114-6 | SampType: MBLK   | TestCode: TO_15UG | Units: µg/m³ | Prep Date:               | Run ID: VOA-6_140321A |           |             |      |          |      |
| Client ID:                | ZZZZZ      | Batch ID: R97360 | TestNo: TO-15     |              | Analysis Date: 3/21/2014 | SeqNo: 2631323        |           |             |      |          |      |
| Analyte                   | Result     | PQL              | SPK value         | SPK Ref Val  | %REC                     | LowLimit              | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane     | ND         | 1.1              |                   |              |                          |                       |           |             |      |          |      |
| 1,1,2,2-Tetrachloroethane | ND         | 1.4              |                   |              |                          |                       |           |             |      |          |      |
| 1,1,2-Trichloroethane     | ND         | 1.1              |                   |              |                          |                       |           |             |      |          |      |
| 1,1-Dichloroethane        | ND         | 0.80             |                   |              |                          |                       |           |             |      |          |      |
| 1,1-Dichloroethene        | ND         | 0.80             |                   |              |                          |                       |           |             |      |          |      |
| 1,2,4-Trichlorobenzene    | ND         | 1.5              |                   |              |                          |                       |           |             |      |          |      |
| 1,2,4-Trimethylbenzene    | ND         | 1.0              |                   |              |                          |                       |           |             |      |          |      |
| 1,2-Dibromoethane         | ND         | 1.5              |                   |              |                          |                       |           |             |      |          |      |
| 1,2-Dichlorobenzene       | ND         | 1.2              |                   |              |                          |                       |           |             |      |          |      |
| 1,2-Dichloroethane        | ND         | 0.80             |                   |              |                          |                       |           |             |      |          |      |
| 1,2-Dichloropropane       | ND         | 0.90             |                   |              |                          |                       |           |             |      |          |      |
| 1,3,5-Trimethylbenzene    | ND         | 1.0              |                   |              |                          |                       |           |             |      |          |      |
| 1,3-Butadiene             | ND         | 0.40             |                   |              |                          |                       |           |             |      |          |      |
| 1,3-Dichlorobenzene       | ND         | 1.2              |                   |              |                          |                       |           |             |      |          |      |
| 1,4-Dichlorobenzene       | ND         | 1.2              |                   |              |                          |                       |           |             |      |          |      |
| 1,4-Dioxane               | ND         | 1.8              |                   |              |                          |                       |           |             |      |          |      |
| 2-Butanone                | ND         | 1.5              |                   |              |                          |                       |           |             |      |          |      |
| 2-Hexanone                | ND         | 4.1              |                   |              |                          |                       |           |             |      |          |      |
| 4-Ethyltoluene            | ND         | 1.0              |                   |              |                          |                       |           |             |      |          |      |
| 4-Methyl-2-pentanone      | ND         | 4.1              |                   |              |                          |                       |           |             |      |          |      |
| Acetone                   | ND         | 4.8              |                   |              |                          |                       |           |             |      |          | *    |
| Benzene                   | ND         | 0.60             |                   |              |                          |                       |           |             |      |          |      |
| Benzyl chloride           | ND         | 2.6              |                   |              |                          |                       |           |             |      |          |      |
| Bromodichloromethane      | ND         | 1.3              |                   |              |                          |                       |           |             |      |          |      |
| Bromoform                 | ND         | 5.2              |                   |              |                          |                       |           |             |      |          |      |
| Bromomethane              | 0.1942     | 1.9              |                   |              |                          |                       |           |             |      |          | J    |
| Carbon disulfide          | ND         | 0.62             |                   |              |                          |                       |           |             |      |          |      |
| Carbon tetrachloride      | ND         | 1.3              |                   |              |                          |                       |           |             |      |          |      |
| Chlorobenzene             | ND         | 0.90             |                   |              |                          |                       |           |             |      |          |      |
| Chloroethane              | ND         | 0.50             |                   |              |                          |                       |           |             |      |          |      |
| Chloroform                | ND         | 1.0              |                   |              |                          |                       |           |             |      |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|                           |            |                  |                   |              |                          |                       |           |             |      |          |      |
|---------------------------|------------|------------------|-------------------|--------------|--------------------------|-----------------------|-----------|-------------|------|----------|------|
| Sample ID                 | MB032114-6 | SampType: MBLK   | TestCode: TO_15UG | Units: µg/m³ | Prep Date:               | Run ID: VOA-6_140321A |           |             |      |          |      |
| Client ID:                | ZZZZZ      | Batch ID: R97360 | TestNo: TO-15     |              | Analysis Date: 3/21/2014 | SeqNo: 2631323        |           |             |      |          |      |
| Analyte                   | Result     | PQL              | SPK value         | SPK Ref Val  | %REC                     | LowLimit              | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chloromethane             | ND         | 1.0              |                   |              |                          |                       |           |             |      |          |      |
| cis-1,2-Dichloroethene    | ND         | 0.80             |                   |              |                          |                       |           |             |      |          |      |
| cis-1,3-Dichloropropene   | ND         | 0.90             |                   |              |                          |                       |           |             |      |          |      |
| Cyclohexane               | ND         | 0.70             |                   |              |                          |                       |           |             |      |          |      |
| Dibromochloromethane      | ND         | 1.7              |                   |              |                          |                       |           |             |      |          |      |
| Dichlorodifluoromethane   | ND         | 1.0              |                   |              |                          |                       |           |             |      |          |      |
| Ethyl acetate             | ND         | 0.70             |                   |              |                          |                       |           |             |      |          |      |
| Ethylbenzene              | ND         | 0.90             |                   |              |                          |                       |           |             |      |          |      |
| Freon-113                 | ND         | 1.5              |                   |              |                          |                       |           |             |      |          |      |
| Freon-114                 | ND         | 7.0              |                   |              |                          |                       |           |             |      |          |      |
| Heptane                   | ND         | 0.80             |                   |              |                          |                       |           |             |      |          |      |
| Hexachlorobutadiene       | ND         | 2.1              |                   |              |                          |                       |           |             |      |          |      |
| Hexane                    | ND         | 1.8              |                   |              |                          |                       |           |             |      |          |      |
| Isopropyl Alcohol         | ND         | 2.5              |                   |              |                          |                       |           |             |      |          |      |
| m,p-Xylene                | ND         | 1.7              |                   |              |                          |                       |           |             |      |          |      |
| Methyl tert-butyl ether   | ND         | 0.70             |                   |              |                          |                       |           |             |      |          |      |
| Methylene chloride        | ND         | 6.9              |                   |              |                          |                       |           |             |      |          |      |
| o-Xylene                  | ND         | 0.90             |                   |              |                          |                       |           |             |      |          |      |
| Propene                   | ND         | 3.4              |                   |              |                          |                       |           |             |      |          |      |
| Styrene                   | ND         | 0.90             |                   |              |                          |                       |           |             |      |          |      |
| Tetrachloroethene         | ND         | 1.4              |                   |              |                          |                       |           |             |      |          |      |
| Tetrahydrofuran           | ND         | 1.5              |                   |              |                          |                       |           |             |      |          |      |
| Toluene                   | ND         | 0.80             |                   |              |                          |                       |           |             |      |          |      |
| trans-1,2-Dichloroethene  | ND         | 0.80             |                   |              |                          |                       |           |             |      |          |      |
| trans-1,3-Dichloropropene | ND         | 0.90             |                   |              |                          |                       |           |             |      |          |      |
| Trichloroethene           | ND         | 1.1              |                   |              |                          |                       |           |             |      |          |      |
| Trichlorofluoromethane    | ND         | 1.1              |                   |              |                          |                       |           |             |      |          |      |
| Vinyl acetate             | ND         | 7.0              |                   |              |                          |                       |           |             |      |          |      |
| Vinyl chloride            | ND         | 0.50             |                   |              |                          |                       |           |             |      |          |      |
| Xylenes, Total            | ND         | 2.6              |                   |              |                          |                       |           |             |      |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|                           |                  |               |                   |              |                          |          |           |             |                       |          |      |
|---------------------------|------------------|---------------|-------------------|--------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID                 | LCS032114-6 5.0  | SampType: LCS | TestCode: TO_15UG | Units: µg/m³ | Prep Date:               |          |           |             | Run ID: VOA-6_140321A |          |      |
| Client ID: ZZZZZ          | Batch ID: R97360 | TestNo: TO-15 |                   |              | Analysis Date: 3/21/2014 |          |           |             | SeqNo: 2631324        |          |      |
| Analyte                   | Result           | PQL           | SPK value         | SPK Ref Val  | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| 1,1,1-Trichloroethane     | 22.32            | 1.1           | 27.28             | 0            | 81.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,1,2,2-Tetrachloroethane | 27.33            | 1.4           | 34.34             | 0            | 79.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,1,2-Trichloroethane     | 23.19            | 1.1           | 27.28             | 0            | 85                       | 70       | 130       | 0           | 0                     |          |      |
| 1,1-Dichloroethane        | 18.86            | 0.80          | 20.24             | 0            | 93.2                     | 70       | 130       | 0           | 0                     |          |      |
| 1,1-Dichloroethene        | 18.6             | 0.80          | 19.82             | 0            | 93.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2,4-Trichlorobenzene    | 36.96            | 1.5           | 37.11             | 0            | 99.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2,4-Trimethylbenzene    | 22.02            | 1.0           | 24.58             | 0            | 89.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dibromoethane         | 33.65            | 1.5           | 38.42             | 0            | 87.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichlorobenzene       | 25.49            | 1.2           | 30.06             | 0            | 84.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichloroethane        | 16.35            | 0.80          | 20.24             | 0            | 80.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichloropropane       | 18.99            | 0.90          | 23.11             | 0            | 82.2                     | 70       | 130       | 0           | 0                     |          |      |
| 1,3,5-Trimethylbenzene    | 21.33            | 1.0           | 24.58             | 0            | 86.8                     | 70       | 130       | 0           | 0                     |          |      |
| 1,3-Butadiene             | 10.18            | 0.40          | 11.06             | 0            | 92                       | 70       | 130       | 0           | 0                     |          |      |
| 1,3-Dichlorobenzene       | 25.73            | 1.2           | 30.06             | 0            | 85.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,4-Dichlorobenzene       | 24.95            | 1.2           | 30.06             | 0            | 83                       | 70       | 130       | 0           | 0                     |          |      |
| 1,4-Dioxane               | 17.26            | 1.8           | 18.02             | 0            | 95.8                     | 70       | 130       | 0           | 0                     |          |      |
| 2-Butanone                | 13.98            | 1.5           | 14.75             | 0            | 94.8                     | 70       | 130       | 0           | 0                     |          |      |
| 2-Hexanone                | 19.83            | 4.1           | 20.48             | 0            | 96.8                     | 70       | 130       | 0           | 0                     |          |      |
| 4-Ethyltoluene            | 21.73            | 1.0           | 24.58             | 0            | 88.4                     | 70       | 130       | 0           | 0                     |          |      |
| 4-Methyl-2-pentanone      | 16.02            | 4.1           | 20.48             | 0            | 78.2                     | 70       | 130       | 0           | 0                     |          |      |
| Acetone                   | 10.07            | 4.8           | 11.88             | 0            | 84.8                     | 70       | 130       | 0           | 0                     |          | *    |
| Benzene                   | 11.95            | 0.60          | 15.97             | 0            | 74.8                     | 70       | 130       | 0           | 0                     |          |      |
| Benzyl chloride           | 20.19            | 2.6           | 25.89             | 0            | 78                       | 70       | 130       | 0           | 0                     |          |      |
| Bromodichloromethane      | 28.41            | 1.3           | 33.5              | 0            | 84.8                     | 70       | 130       | 0           | 0                     |          |      |
| Bromoform                 | 45.38            | 5.2           | 51.68             | 0            | 87.8                     | 70       | 130       | 0           | 0                     |          |      |
| Bromomethane              | 17.82            | 1.9           | 19.42             | 0.1942       | 90.8                     | 70       | 130       | 0           | 0                     |          |      |
| Carbon disulfide          | 15.1             | 0.62          | 15.57             | 0            | 97                       | 70       | 130       | 0           | 0                     |          |      |
| Carbon tetrachloride      | 25.61            | 1.3           | 31.46             | 0            | 81.4                     | 70       | 130       | 0           | 0                     |          |      |
| Chlorobenzene             | 17.13            | 0.90          | 23.02             | 0            | 74.4                     | 70       | 130       | 0           | 0                     |          |      |
| Chloroethane              | 12.64            | 0.50          | 13.19             | 0            | 95.8                     | 70       | 130       | 0           | 0                     |          |      |
| Chloroform                | 19.53            | 1.0           | 24.41             | 0            | 80                       | 70       | 130       | 0           | 0                     |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |



**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|                           |                  |               |                   |              |                          |          |           |             |                       |          |      |
|---------------------------|------------------|---------------|-------------------|--------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID                 | LCS032114-6 5.0  | SampType: LCS | TestCode: TO_15UG | Units: µg/m³ | Prep Date:               |          |           |             | Run ID: VOA-6_140321A |          |      |
| Client ID: ZZZZZ          | Batch ID: R97360 | TestNo: TO-15 |                   |              | Analysis Date: 3/21/2014 |          |           |             | SeqNo: 2631324        |          |      |
| Analyte                   | Result           | PQL           | SPK value         | SPK Ref Val  | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Chloromethane             | 9.458            | 1.0           | 10.33             | 0            | 91.6                     | 70       | 130       | 0           | 0                     |          |      |
| cis-1,2-Dichloroethene    | 18.79            | 0.80          | 19.82             | 0            | 94.8                     | 70       | 130       | 0           | 0                     |          |      |
| cis-1,3-Dichloropropene   | 20.06            | 0.90          | 22.69             | 0            | 88.4                     | 70       | 130       | 0           | 0                     |          |      |
| Cyclohexane               | 13.8             | 0.70          | 17.21             | 0            | 80.2                     | 70       | 130       | 0           | 0                     |          |      |
| Dibromochloromethane      | 39.87            | 1.7           | 42.59             | 0            | 93.6                     | 70       | 130       | 0           | 0                     |          |      |
| Dichlorodifluoromethane   | 23.04            | 1.0           | 24.73             | 0            | 93.2                     | 70       | 130       | 0           | 0                     |          |      |
| Ethyl acetate             | 13.23            | 0.70          | 18.02             | 0            | 73.4                     | 70       | 130       | 0           | 0                     |          |      |
| Ethylbenzene              | 17.11            | 0.90          | 21.71             | 0            | 78.8                     | 70       | 130       | 0           | 0                     |          |      |
| Freon-113                 | 35.48            | 1.5           | 38.32             | 0            | 92.6                     | 70       | 130       | 0           | 0                     |          |      |
| Freon-114                 | 33.83            | 7.0           | 34.95             | 0            | 96.8                     | 70       | 130       | 0           | 0                     |          |      |
| Heptane                   | 16.6             | 0.80          | 20.49             | 0            | 81                       | 70       | 130       | 0           | 0                     |          |      |
| Hexachlorobutadiene       | 52.15            | 2.1           | 53.33             | 0            | 97.8                     | 70       | 130       | 0           | 0                     |          |      |
| Hexane                    | 16.81            | 1.8           | 17.62             | 0            | 95.4                     | 70       | 130       | 0           | 0                     |          |      |
| Isopropyl Alcohol         | 10.86            | 2.5           | 12.29             | 0            | 88.4                     | 70       | 130       | 0           | 0                     |          |      |
| m,p-Xylene                | 34.87            | 1.7           | 43.42             | 0            | 80.3                     | 70       | 130       | 0           | 0                     |          |      |
| Methyl tert-butyl ether   | 17.27            | 0.70          | 18.03             | 0            | 95.8                     | 70       | 130       | 0           | 0                     |          |      |
| Methylene chloride        | 15.49            | 6.9           | 17.37             | 0            | 89.2                     | 70       | 130       | 0           | 0                     |          |      |
| o-Xylene                  | 17.72            | 0.90          | 21.71             | 0            | 81.6                     | 70       | 130       | 0           | 0                     |          |      |
| Propene                   | 6.97             | 3.4           | 8.605             | 0            | 81                       | 70       | 130       | 0           | 0                     |          |      |
| Styrene                   | 18.53            | 0.90          | 21.3              | 0            | 87                       | 70       | 130       | 0           | 0                     |          |      |
| Tetrachloroethene         | 29.57            | 1.4           | 33.91             | 0            | 87.2                     | 70       | 130       | 0           | 0                     |          |      |
| Tetrahydrofuran           | 10.88            | 1.5           | 14.75             | 0            | 73.8                     | 70       | 130       | 0           | 0                     |          |      |
| Toluene                   | 15.86            | 0.80          | 18.84             | 0            | 84.2                     | 70       | 130       | 0           | 0                     |          |      |
| trans-1,2-Dichloroethene  | 19.39            | 0.80          | 19.82             | 0            | 97.8                     | 70       | 130       | 0           | 0                     |          |      |
| trans-1,3-Dichloropropene | 18.11            | 0.90          | 22.69             | 0            | 79.8                     | 70       | 130       | 0           | 0                     |          |      |
| Trichloroethene           | 22.68            | 1.1           | 26.87             | 0            | 84.4                     | 70       | 130       | 0           | 0                     |          |      |
| Trichlorofluoromethane    | 26.58            | 1.1           | 28.09             | 0            | 94.6                     | 70       | 130       | 0           | 0                     |          |      |
| Vinyl acetate             | 15.81            | 7.0           | 17.61             | 0            | 89.8                     | 70       | 130       | 0           | 0                     |          |      |
| Vinyl chloride            | 12.5             | 0.50          | 12.78             | 0            | 97.8                     | 70       | 130       | 0           | 0                     |          |      |
| Xylenes, Total            | 52.54            | 2.6           | 65.13             | 0            | 80.7                     | 70       | 130       | 0           | 0                     |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97360

|                           |                  |                |                   |              |                          |          |           |             |                       |          |      |
|---------------------------|------------------|----------------|-------------------|--------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID                 | LCSD032114-6 5.0 | SampType: LCSD | TestCode: TO_15UG | Units: µg/m³ | Prep Date:               |          |           |             | Run ID: VOA-6_140321A |          |      |
| Client ID: ZZZZZ          | Batch ID: R97360 | TestNo: TO-15  |                   |              | Analysis Date: 3/21/2014 |          |           |             | SeqNo: 2631325        |          |      |
| Analyte                   | Result           | PQL            | SPK value         | SPK Ref Val  | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| 1,1,1-Trichloroethane     | 22.42            | 1.1            | 27.28             | 0            | 82.2                     | 70       | 130       | 22.32       | 0.488                 | 25       |      |
| 1,1,2,2-Tetrachloroethane | 27.4             | 1.4            | 34.34             | 0            | 79.8                     | 70       | 130       | 27.33       | 0.251                 | 25       |      |
| 1,1,2-Trichloroethane     | 23.35            | 1.1            | 27.28             | 0            | 85.6                     | 70       | 130       | 23.19       | 0.703                 | 25       |      |
| 1,1-Dichloroethane        | 18.82            | 0.80           | 20.24             | 0            | 93                       | 70       | 130       | 18.86       | 0.215                 | 25       |      |
| 1,1-Dichloroethene        | 18.75            | 0.80           | 19.82             | 0            | 94.6                     | 70       | 130       | 18.6        | 0.849                 | 25       |      |
| 1,2,4-Trichlorobenzene    | 36.59            | 1.5            | 37.11             | 0            | 98.6                     | 70       | 130       | 36.96       | 1.01                  | 25       |      |
| 1,2,4-Trimethylbenzene    | 21.68            | 1.0            | 24.58             | 0            | 88.2                     | 70       | 130       | 22.02       | 1.57                  | 25       |      |
| 1,2-Dibromoethane         | 34.04            | 1.5            | 38.42             | 0            | 88.6                     | 70       | 130       | 33.65       | 1.14                  | 25       |      |
| 1,2-Dichlorobenzene       | 25.31            | 1.2            | 30.06             | 0            | 84.2                     | 70       | 130       | 25.49       | 0.710                 | 25       |      |
| 1,2-Dichloroethane        | 16.55            | 0.80           | 20.24             | 0            | 81.8                     | 70       | 130       | 16.35       | 1.23                  | 25       |      |
| 1,2-Dichloropropane       | 19.27            | 0.90           | 23.11             | 0            | 83.4                     | 70       | 130       | 18.99       | 1.45                  | 25       |      |
| 1,3,5-Trimethylbenzene    | 20.99            | 1.0            | 24.58             | 0            | 85.4                     | 70       | 130       | 21.33       | 1.63                  | 25       |      |
| 1,3-Butadiene             | 10.22            | 0.40           | 11.06             | 0            | 92.4                     | 70       | 130       | 10.18       | 0.434                 | 25       |      |
| 1,3-Dichlorobenzene       | 25.55            | 1.2            | 30.06             | 0            | 85                       | 70       | 130       | 25.73       | 0.703                 | 25       |      |
| 1,4-Dichlorobenzene       | 24.83            | 1.2            | 30.06             | 0            | 82.6                     | 70       | 130       | 24.95       | 0.483                 | 25       |      |
| 1,4-Dioxane               | 17.26            | 1.8            | 18.02             | 0            | 95.8                     | 70       | 130       | 17.26       | 0                     | 25       |      |
| 2-Butanone                | 14.27            | 1.5            | 14.75             | 0            | 96.8                     | 70       | 130       | 13.98       | 2.09                  | 25       |      |
| 2-Hexanone                | 19.83            | 4.1            | 20.48             | 0            | 96.8                     | 70       | 130       | 19.83       | 0                     | 25       |      |
| 4-Ethyltoluene            | 21.33            | 1.0            | 24.58             | 0            | 86.8                     | 70       | 130       | 21.73       | 1.83                  | 25       |      |
| 4-Methyl-2-pentanone      | 15.94            | 4.1            | 20.48             | 0            | 77.8                     | 70       | 130       | 16.02       | 0.513                 | 25       |      |
| Acetone                   | 10.17            | 4.8            | 11.88             | 0            | 85.6                     | 70       | 130       | 10.07       | 0.939                 | 25       | *    |
| Benzene                   | 12.04            | 0.60           | 15.97             | 0            | 75.4                     | 70       | 130       | 11.95       | 0.799                 | 25       |      |
| Benzyl chloride           | 21.69            | 2.6            | 25.89             | 0            | 83.8                     | 70       | 130       | 20.19       | 7.17                  | 25       |      |
| Bromodichloromethane      | 28.95            | 1.3            | 33.5              | 0            | 86.4                     | 70       | 130       | 28.41       | 1.87                  | 25       |      |
| Bromoform                 | 46.93            | 5.2            | 51.68             | 0            | 90.8                     | 70       | 130       | 45.38       | 3.36                  | 25       |      |
| Bromomethane              | 18.02            | 1.9            | 19.42             | 0.1942       | 91.8                     | 70       | 130       | 17.82       | 1.08                  | 25       |      |
| Carbon disulfide          | 15.1             | 0.62           | 15.57             | 0            | 97                       | 70       | 130       | 15.1        | 0                     | 25       |      |
| Carbon tetrachloride      | 26.42            | 1.3            | 31.46             | 0            | 84                       | 70       | 130       | 25.61       | 3.14                  | 25       |      |
| Chlorobenzene             | 17.13            | 0.90           | 23.02             | 0            | 74.4                     | 70       | 130       | 17.13       | 0                     | 25       |      |
| Chloroethane              | 12.64            | 0.50           | 13.19             | 0            | 95.8                     | 70       | 130       | 12.64       | 0                     | 25       |      |
| Chloroform                | 19.63            | 1.0            | 24.41             | 0            | 80.4                     | 70       | 130       | 19.53       | 0.499                 | 25       |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97360**

|                           |                  |                |                   |              |                          |          |           |             |                       |          |      |
|---------------------------|------------------|----------------|-------------------|--------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID                 | LCSD032114-6 5.0 | SampType: LCSD | TestCode: TO_15UG | Units: µg/m³ | Prep Date:               |          |           |             | Run ID: VOA-6_140321A |          |      |
| Client ID: ZZZZZ          | Batch ID: R97360 | TestNo: TO-15  |                   |              | Analysis Date: 3/21/2014 |          |           |             | SeqNo: 2631325        |          |      |
| Analyte                   | Result           | PQL            | SPK value         | SPK Ref Val  | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Chloromethane             | 8.942            | 1.0            | 10.33             | 0            | 86.6                     | 70       | 130       | 9.458       | 5.61                  | 25       |      |
| cis-1,2-Dichloroethene    | 19.03            | 0.80           | 19.82             | 0            | 96                       | 70       | 130       | 18.79       | 1.26                  | 25       |      |
| cis-1,3-Dichloropropene   | 20.56            | 0.90           | 22.69             | 0            | 90.6                     | 70       | 130       | 20.06       | 2.46                  | 25       |      |
| Cyclohexane               | 13.84            | 0.70           | 17.21             | 0            | 80.4                     | 70       | 130       | 13.8        | 0.249                 | 25       |      |
| Dibromochloromethane      | 40.63            | 1.7            | 42.59             | 0            | 95.4                     | 70       | 130       | 39.87       | 1.90                  | 25       |      |
| Dichlorodifluoromethane   | 23.04            | 1.0            | 24.73             | 0            | 93.2                     | 70       | 130       | 23.04       | 0                     | 25       |      |
| Ethyl acetate             | 13.3             | 0.70           | 18.02             | 0            | 73.8                     | 70       | 130       | 13.23       | 0.543                 | 25       |      |
| Ethylbenzene              | 17.11            | 0.90           | 21.71             | 0            | 78.8                     | 70       | 130       | 17.11       | 0                     | 25       |      |
| Freon-113                 | 35.48            | 1.5            | 38.32             | 0            | 92.6                     | 70       | 130       | 35.48       | 0                     | 25       |      |
| Freon-114                 | 34.46            | 7.0            | 34.95             | 0            | 98.6                     | 70       | 130       | 33.83       | 1.84                  | 25       |      |
| Heptane                   | 16.6             | 0.80           | 20.49             | 0            | 81                       | 70       | 130       | 16.6        | 0                     | 25       |      |
| Hexachlorobutadiene       | 50.77            | 2.1            | 53.33             | 0            | 95.2                     | 70       | 130       | 52.15       | 2.69                  | 25       |      |
| Hexane                    | 17.02            | 1.8            | 17.62             | 0            | 96.6                     | 70       | 130       | 16.81       | 1.25                  | 25       |      |
| Isopropyl Alcohol         | 11.6             | 2.5            | 12.29             | 0            | 94.4                     | 70       | 130       | 10.86       | 6.56                  | 25       |      |
| m,p-Xylene                | 34.65            | 1.7            | 43.42             | 0            | 79.8                     | 70       | 130       | 34.87       | 0.625                 | 25       |      |
| Methyl tert-butyl ether   | 17.52            | 0.70           | 18.03             | 0            | 97.2                     | 70       | 130       | 17.27       | 1.45                  | 25       |      |
| Methylene chloride        | 15.77            | 6.9            | 17.37             | 0            | 90.8                     | 70       | 130       | 15.49       | 1.78                  | 25       |      |
| o-Xylene                  | 17.58            | 0.90           | 21.71             | 0            | 81                       | 70       | 130       | 17.72       | 0.738                 | 25       |      |
| Propene                   | 7.108            | 3.4            | 8.605             | 0            | 82.6                     | 70       | 130       | 6.97        | 1.96                  | 25       |      |
| Styrene                   | 18.79            | 0.90           | 21.3              | 0            | 88.2                     | 70       | 130       | 18.53       | 1.37                  | 25       |      |
| Tetrachloroethene         | 29.57            | 1.4            | 33.91             | 0            | 87.2                     | 70       | 130       | 29.57       | 0                     | 25       |      |
| Tetrahydrofuran           | 11.15            | 1.5            | 14.75             | 0            | 75.6                     | 70       | 130       | 10.88       | 2.41                  | 25       |      |
| Toluene                   | 15.9             | 0.80           | 18.84             | 0            | 84.4                     | 70       | 130       | 15.86       | 0.237                 | 25       |      |
| trans-1,2-Dichloroethene  | 19.15            | 0.80           | 19.82             | 0            | 96.6                     | 70       | 130       | 19.39       | 1.23                  | 25       |      |
| trans-1,3-Dichloropropene | 18.65            | 0.90           | 22.69             | 0            | 82.2                     | 70       | 130       | 18.11       | 2.96                  | 25       |      |
| Trichloroethene           | 22.84            | 1.1            | 26.87             | 0            | 85                       | 70       | 130       | 22.68       | 0.708                 | 25       |      |
| Trichlorofluoromethane    | 26.35            | 1.1            | 28.09             | 0            | 93.8                     | 70       | 130       | 26.58       | 0.849                 | 25       |      |
| Vinyl acetate             | 16.65            | 7.0            | 17.61             | 0            | 94.6                     | 70       | 130       | 15.81       | 5.21                  | 25       |      |
| Vinyl chloride            | 12.47            | 0.50           | 12.78             | 0            | 97.6                     | 70       | 130       | 12.5        | 0.205                 | 25       |      |
| Xylenes, Total            | 52.19            | 2.6            | 65.13             | 0            | 80.1                     | 70       | 130       | 52.54       | 0.663                 | 25       |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

CLIENT:

Weston Solutions

Work Order:

14030659

Project:

20405.012.005.2306.00, BKG, Kankakee, IL

Test No:

SW8260B

Matrix: W

QC SUMMARY REPORT

SURROGATE RECOVERIES

| Sample ID     | BR4FBZ | BZMED8 | DBFM | DCA12D4 |  |  |  |  |
|---------------|--------|--------|------|---------|--|--|--|--|
| VBLK032214-7  | 94.6   | 97.8   | 104  | 101     |  |  |  |  |
| VLCS032214-7  | 96.8   | 103    | 108  | 98.8    |  |  |  |  |
| VLCS032214-7  | 100    | 102    | 106  | 100     |  |  |  |  |
| 14030659-001A | 94.9   | 101    | 111  | 101     |  |  |  |  |
| 14030659-002A | 96.3   | 101    | 108  | 97.8    |  |  |  |  |

| Acronym | Surrogate               | QC Limits |
|---------|-------------------------|-----------|
| BR4FBZ  | = 4-Bromofluorobenzene  | 86-115    |
| BZMED8  | = Toluene-d8            | 88-110    |
| DBFM    | = Dibromofluoromethane  | 86-118    |
| DCA12D4 | = 1,2-Dichloroethane-d4 | 80-120    |

\* Surrogate recovery outside acceptance limits

## Analytical Run Summary

Run ID: VOA-7\_140322A (R97379)

Analyst ERP

Printed: 24-Mar-14

| SeqNo   | Sample ID     | Type | Test Code | Batch  | DF | File ID    | Date/Time Analyzed |
|---------|---------------|------|-----------|--------|----|------------|--------------------|
| 2630990 | BFB032214-7   | TUNE | BFB_624   | R97379 | 1  | 03221401.D | 03/22/2014 12:55   |
| 2630991 | VSTD050       | CCV  | VOC_W+    | R97379 | 1  | 03221404.D | 03/22/2014 15:18   |
| 2630994 | VBLK032214-7  | MBLK | VOC_W+    | R97379 | 1  | 03221405.D | 03/22/2014 15:52   |
| 2630996 | VLCS032214-7  | LCS  | VOC_W+    | R97379 | 1  | 03221406.D | 03/22/2014 16:27   |
| 2630998 | VLCS032214-7  | LCSD | VOC_W+    | R97379 | 1  | 03221407.D | 03/22/2014 17:01   |
| 2631022 | 14030536-011B | SAMP | VOC_W     | R97379 | 10 | 03221408.D | 03/22/2014 18:20   |
| 2631002 | 14030536-013B | SAMP | VOC_W     | R97379 | 10 | 03221409.D | 03/22/2014 18:54   |
| 2631003 | 14030536-015B | SAMP | VOC_W     | R97379 | 10 | 03221410.D | 03/22/2014 19:29   |
| 2631005 | 14030536-016B | SAMP | VOC_W     | R97379 | 10 | 03221411.D | 03/22/2014 20:03   |
| 2631007 | 14030536-017B | SAMP | VOC_W     | R97379 | 10 | 03221412.D | 03/22/2014 20:38   |
| 2631010 | 14030536-018B | SAMP | VOC_W     | R97379 | 10 | 03221413.D | 03/22/2014 21:12   |
| 2631013 | 14030536-019B | SAMP | VOC_W     | R97379 | 10 | 03221414.D | 03/22/2014 21:46   |
| 2631016 | 14030536-020B | SAMP | VOC_W     | R97379 | 10 | 03221415.D | 03/22/2014 22:21   |
| 2631018 | 14030659-001A | SAMP | VOC_W     | R97379 | 1  | 03221416.D | 03/22/2014 22:55   |
| 2631019 | 14030659-002A | SAMP | VOC_W     | R97379 | 1  | 03221417.D | 03/22/2014 23:30   |
| 2631020 | 14030536-023B | SAMP | VOC_W     | R97379 | 1  | 03221418.D | 03/23/2014 0:04    |
| 2631021 | 14030536-024B | SAMP | VOC_W     | R97379 | 1  | 03221419.D | 03/23/2014 0:38    |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97379

|                           |                  |                 |                          |                |            |                       |           |             |      |          |      |
|---------------------------|------------------|-----------------|--------------------------|----------------|------------|-----------------------|-----------|-------------|------|----------|------|
| Sample ID                 | VBLK032214-7     | SampType: MBLK  | TestCode: VOC_W+         | Units: mg/L    | Prep Date: | Run ID: VOA-7_140322A |           |             |      |          |      |
| Client ID: ZZZZZ          | Batch ID: R97379 | TestNo: SW8260B | Analysis Date: 3/22/2014 | SeqNo: 2630994 |            |                       |           |             |      |          |      |
| Analyte                   | Result           | PQL             | SPK value                | SPK Ref Val    | %REC       | LowLimit              | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| 1,1,1-Trichloroethane     | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,1,2,2-Tetrachloroethane | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,1,2-Trichloroethane     | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,1-Dichloroethane        | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,1-Dichloroethene        | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,2,4-Trichlorobenzene    | 0.00186          | 0.0050          |                          |                |            |                       |           |             |      |          | J    |
| 1,2,4-Trimethylbenzene    | 0.00094          | 0.0050          |                          |                |            |                       |           |             |      |          | J    |
| 1,2-Dibromoethane         | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,2-Dichlorobenzene       | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,2-Dichloroethane        | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,2-Dichloropropane       | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,3,5-Trimethylbenzene    | 0.00058          | 0.0050          |                          |                |            |                       |           |             |      |          | J    |
| 1,3-Butadiene             | ND               | 0.010           |                          |                |            |                       |           |             |      |          | *    |
| 1,3-Dichlorobenzene       | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| 1,4-Dichlorobenzene       | 0.00048          | 0.0050          |                          |                |            |                       |           |             |      |          | J    |
| 1,4-Dioxane               | ND               | 0.20            |                          |                |            |                       |           |             |      |          |      |
| 2-Butanone                | ND               | 0.020           |                          |                |            |                       |           |             |      |          |      |
| 2-Hexanone                | ND               | 0.020           |                          |                |            |                       |           |             |      |          |      |
| 4-Methyl-2-pentanone      | ND               | 0.020           |                          |                |            |                       |           |             |      |          |      |
| Acetone                   | ND               | 0.020           |                          |                |            |                       |           |             |      |          |      |
| Benzene                   | 0.00023          | 0.0050          |                          |                |            |                       |           |             |      |          | J    |
| Bromochloromethane        | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| Bromodichloromethane      | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| Bromoform                 | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| Bromomethane              | ND               | 0.010           |                          |                |            |                       |           |             |      |          |      |
| Carbon disulfide          | 0.00039          | 0.010           |                          |                |            |                       |           |             |      |          | J    |
| Carbon tetrachloride      | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| Chlorobenzene             | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| Chloroethane              | ND               | 0.010           |                          |                |            |                       |           |             |      |          |      |
| Chloroform                | ND               | 0.0050          |                          |                |            |                       |           |             |      |          |      |
| Chloromethane             | ND               | 0.010           |                          |                |            |                       |           |             |      |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97379

|            |              |           |        |           |             |        |          |                |             |         |               |      |
|------------|--------------|-----------|--------|-----------|-------------|--------|----------|----------------|-------------|---------|---------------|------|
| Sample ID  | VBLK032214-7 | SampType: | MBLK   | TestCode: | VOC_W+      | Units: | mg/L     | Prep Date:     |             | Run ID: | VOA-7_140322A |      |
| Client ID: | ZZZZZ        | Batch ID: | R97379 | TestNo:   | SW8260B     |        |          | Analysis Date: | 3/22/2014   | SeqNo:  | 2630994       |      |
| Analyte    |              | Result    | PQL    | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD    | RPDLimit      | Qual |

|                           |         |        |  |  |  |  |  |  |  |  |  |    |
|---------------------------|---------|--------|--|--|--|--|--|--|--|--|--|----|
| cis-1,2-Dichloroethene    | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| cis-1,3-Dichloropropene   | ND      | 0.0010 |  |  |  |  |  |  |  |  |  |    |
| Dibromochloromethane      | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| Dichlorodifluoromethane   | ND      | 0.010  |  |  |  |  |  |  |  |  |  |    |
| Ethyl acetate             | ND      | 0.050  |  |  |  |  |  |  |  |  |  |    |
| Ethylbenzene              | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| Hexachlorobutadiene       | 0.00498 | 0.0050 |  |  |  |  |  |  |  |  |  | J* |
| Hexane                    | ND      | 0.0050 |  |  |  |  |  |  |  |  |  | *  |
| Isopropyl Alcohol         | ND      | 0.40   |  |  |  |  |  |  |  |  |  | *  |
| m,p-Xylene                | ND      | 0.010  |  |  |  |  |  |  |  |  |  |    |
| Methyl tert-butyl ether   | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| Methylene chloride        | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| o-Xylene                  | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| Styrene                   | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| Tetrachloroethene         | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| Toluene                   | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| trans-1,2-Dichloroethene  | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| trans-1,3-Dichloropropene | ND      | 0.0010 |  |  |  |  |  |  |  |  |  |    |
| Trichloroethene           | 0.00406 | 0.0050 |  |  |  |  |  |  |  |  |  | J  |
| Trichlorofluoromethane    | ND      | 0.0050 |  |  |  |  |  |  |  |  |  |    |
| Vinyl acetate             | ND      | 0.020  |  |  |  |  |  |  |  |  |  |    |
| Vinyl chloride            | ND      | 0.0020 |  |  |  |  |  |  |  |  |  |    |
| Xylenes, Total            | ND      | 0.015  |  |  |  |  |  |  |  |  |  |    |

|            |              |           |        |           |             |        |          |                |             |         |               |      |
|------------|--------------|-----------|--------|-----------|-------------|--------|----------|----------------|-------------|---------|---------------|------|
| Sample ID  | VLCS032214-7 | SampType: | LCS    | TestCode: | VOC_W+      | Units: | mg/L     | Prep Date:     |             | Run ID: | VOA-7_140322A |      |
| Client ID: | ZZZZZ        | Batch ID: | R97379 | TestNo:   | SW8260B     |        |          | Analysis Date: | 3/22/2014   | SeqNo:  | 2630996       |      |
| Analyte    |              | Result    | PQL    | SPK value | SPK Ref Val | %REC   | LowLimit | HighLimit      | RPD Ref Val | %RPD    | RPDLimit      | Qual |

|                           |         |        |      |   |      |    |     |   |   |
|---------------------------|---------|--------|------|---|------|----|-----|---|---|
| 1,1,1-Trichloroethane     | 0.01948 | 0.0050 | 0.02 | 0 | 97.4 | 70 | 130 | 0 | 0 |
| 1,1,2,2-Tetrachloroethane | 0.02062 | 0.0050 | 0.02 | 0 | 103  | 70 | 130 | 0 | 0 |
| 1,1,2-Trichloroethane     | 0.01998 | 0.0050 | 0.02 | 0 | 99.9 | 70 | 130 | 0 | 0 |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97379

|                         |                  |                 |                  |             |                          |          |           |             |                       |          |      |
|-------------------------|------------------|-----------------|------------------|-------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID               | VLCS032214-7     | SampType: LCS   | TestCode: VOC_W+ | Units: mg/L | Prep Date:               |          |           |             | Run ID: VOA-7_140322A |          |      |
| Client ID: ZZZZZ        | Batch ID: R97379 | TestNo: SW8260B |                  |             | Analysis Date: 3/22/2014 |          |           |             | SeqNo: 2630996        |          |      |
| Analyte                 | Result           | PQL             | SPK value        | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| 1,1-Dichloroethane      | 0.02181          | 0.0050          | 0.02             | 0           | 109                      | 70       | 130       | 0           | 0                     |          |      |
| 1,1-Dichloroethene      | 0.01678          | 0.0050          | 0.02             | 0           | 83.9                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2,4-Trichlorobenzene  | 0.01845          | 0.0050          | 0.02             | 0.00186     | 83                       | 70       | 130       | 0           | 0                     |          |      |
| 1,2,4-Trimethylbenzene  | 0.01942          | 0.0050          | 0.02             | 0.00094     | 92.4                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dibromoethane       | 0.01965          | 0.0050          | 0.02             | 0           | 98.3                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichlorobenzene     | 0.01845          | 0.0050          | 0.02             | 0           | 92.2                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichloroethane      | 0.0195           | 0.0050          | 0.02             | 0           | 97.5                     | 70       | 130       | 0           | 0                     |          |      |
| 1,2-Dichloropropane     | 0.01994          | 0.0050          | 0.02             | 0           | 99.7                     | 70       | 130       | 0           | 0                     |          |      |
| 1,3,5-Trimethylbenzene  | 0.01897          | 0.0050          | 0.02             | 0.00058     | 92                       | 70       | 130       | 0           | 0                     |          |      |
| 1,3-Butadiene           | 0.02549          | 0.010           | 0.02             | 0           | 127                      | 70       | 130       | 0           | 0                     |          | *    |
| 1,3-Dichlorobenzene     | 0.01811          | 0.0050          | 0.02             | 0           | 90.6                     | 70       | 130       | 0           | 0                     |          |      |
| 1,4-Dichlorobenzene     | 0.01902          | 0.0050          | 0.02             | 0.00048     | 92.7                     | 70       | 130       | 0           | 0                     |          |      |
| 1,4-Dioxane             | 0.2109           | 0.20            | 0.2              | 0           | 105                      | 50       | 150       | 0           | 0                     |          |      |
| 2-Butanone              | 0.04006          | 0.020           | 0.04             | 0           | 100                      | 70       | 130       | 0           | 0                     |          |      |
| 2-Hexanone              | 0.03651          | 0.020           | 0.04             | 0           | 91.3                     | 70       | 130       | 0           | 0                     |          |      |
| 4-Methyl-2-pentanone    | 0.04174          | 0.020           | 0.04             | 0           | 104                      | 70       | 130       | 0           | 0                     |          |      |
| Acetone                 | 0.04623          | 0.020           | 0.04             | 0           | 116                      | 50       | 150       | 0           | 0                     |          |      |
| Benzene                 | 0.01988          | 0.0050          | 0.02             | 0.00023     | 98.3                     | 70       | 130       | 0           | 0                     |          |      |
| Bromochloromethane      | 0.02397          | 0.0050          | 0.02             | 0           | 120                      | 70       | 130       | 0           | 0                     |          |      |
| Bromodichloromethane    | 0.02055          | 0.0050          | 0.02             | 0           | 103                      | 70       | 130       | 0           | 0                     |          |      |
| Bromoform               | 0.0197           | 0.0050          | 0.02             | 0           | 98.5                     | 70       | 130       | 0           | 0                     |          |      |
| Bromomethane            | 0.02389          | 0.010           | 0.02             | 0           | 119                      | 70       | 130       | 0           | 0                     |          |      |
| Carbon disulfide        | 0.05066          | 0.010           | 0.04             | 0.00039     | 126                      | 70       | 130       | 0           | 0                     |          |      |
| Carbon tetrachloride    | 0.01839          | 0.0050          | 0.02             | 0           | 92                       | 70       | 130       | 0           | 0                     |          |      |
| Chlorobenzene           | 0.01878          | 0.0050          | 0.02             | 0           | 93.9                     | 70       | 130       | 0           | 0                     |          |      |
| Chloroethane            | 0.02461          | 0.010           | 0.02             | 0           | 123                      | 70       | 130       | 0           | 0                     |          |      |
| Chloroform              | 0.02155          | 0.0050          | 0.02             | 0           | 108                      | 70       | 130       | 0           | 0                     |          |      |
| Chloromethane           | 0.02373          | 0.010           | 0.02             | 0           | 119                      | 70       | 130       | 0           | 0                     |          |      |
| cis-1,2-Dichloroethene  | 0.02028          | 0.0050          | 0.02             | 0           | 101                      | 70       | 130       | 0           | 0                     |          |      |
| cis-1,3-Dichloropropene | 0.02022          | 0.0010          | 0.02             | 0           | 101                      | 70       | 130       | 0           | 0                     |          |      |
| Dibromochloromethane    | 0.02034          | 0.0050          | 0.02             | 0           | 102                      | 70       | 130       | 0           | 0                     |          |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |



**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** R97379

| Sample ID                 | <b>VLCS032214-7</b> | SampType: | <b>LCS</b>    | TestCode:   | <b>VOC_W+</b>  | Units:   | <b>mg/L</b> | Prep Date:     |                  | Run ID:  | <b>VOA-7_140322A</b> |
|---------------------------|---------------------|-----------|---------------|-------------|----------------|----------|-------------|----------------|------------------|----------|----------------------|
| Client ID:                | <b>ZZZZZ</b>        | Batch ID: | <b>R97379</b> | TestNo:     | <b>SW8260B</b> |          |             | Analysis Date: | <b>3/22/2014</b> | SeqNo:   | <b>2630996</b>       |
| Analyte                   | Result              | PQL       | SPK value     | SPK Ref Val | %REC           | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual                 |
| Dichlorodifluoromethane   | 0.03232             | 0.010     | 0.02          | 0           | 162            | 70       | 130         | 0              | 0                |          | S                    |
| Ethyl acetate             | 0.01947             | 0.050     | 0.02          | 0           | 97.4           | 70       | 130         | 0              | 0                |          | J                    |
| Ethylbenzene              | 0.01906             | 0.0050    | 0.02          | 0           | 95.3           | 70       | 130         | 0              | 0                |          |                      |
| Hexachlorobutadiene       | 0.02017             | 0.0050    | 0.02          | 0.00498     | 76             | 70       | 130         | 0              | 0                |          | *                    |
| Hexane                    | 0.02155             | 0.0050    | 0.02          | 0           | 108            | 70       | 130         | 0              | 0                |          | *                    |
| Isopropyl Alcohol         | 0.391               | 0.40      | 0.4           | 0           | 97.8           | 50       | 150         | 0              | 0                |          | J*                   |
| m,p-Xylene                | 0.03816             | 0.010     | 0.04          | 0           | 95.4           | 70       | 130         | 0              | 0                |          |                      |
| Methyl tert-butyl ether   | 0.0221              | 0.0050    | 0.02          | 0           | 110            | 50       | 150         | 0              | 0                |          |                      |
| Methylene chloride        | 0.0214              | 0.0050    | 0.02          | 0           | 107            | 70       | 130         | 0              | 0                |          |                      |
| o-Xylene                  | 0.01827             | 0.0050    | 0.02          | 0           | 91.4           | 70       | 130         | 0              | 0                |          |                      |
| Styrene                   | 0.0199              | 0.0050    | 0.02          | 0           | 99.5           | 70       | 130         | 0              | 0                |          |                      |
| Tetrachloroethene         | 0.01857             | 0.0050    | 0.02          | 0           | 92.8           | 70       | 130         | 0              | 0                |          |                      |
| Toluene                   | 0.02033             | 0.0050    | 0.02          | 0           | 102            | 70       | 130         | 0              | 0                |          |                      |
| trans-1,2-Dichloroethene  | 0.02063             | 0.0050    | 0.02          | 0           | 103            | 70       | 130         | 0              | 0                |          |                      |
| trans-1,3-Dichloropropene | 0.01926             | 0.0010    | 0.02          | 0           | 96.3           | 70       | 130         | 0              | 0                |          |                      |
| Trichloroethene           | 0.01889             | 0.0050    | 0.02          | 0.00406     | 74.2           | 70       | 130         | 0              | 0                |          |                      |
| Trichlorofluoromethane    | 0.02397             | 0.0050    | 0.02          | 0           | 120            | 70       | 130         | 0              | 0                |          |                      |
| Vinyl acetate             | 0.05291             | 0.020     | 0.04          | 0           | 132            | 50       | 150         | 0              | 0                |          |                      |
| Vinyl chloride            | 0.02479             | 0.0020    | 0.02          | 0           | 124            | 70       | 130         | 0              | 0                |          |                      |
| Xylenes, Total            | 0.05642             | 0.015     | 0.06          | 0           | 94             | 70       | 130         | 0              | 0                |          |                      |

| Sample ID                 | <b>VLCS032214-7</b> | SampType: | <b>LCS</b>    | TestCode:   | <b>VOC_W+</b>  | Units:   | <b>mg/L</b> | Prep Date:     |                  | Run ID:  | <b>VOA-7_140322A</b> |
|---------------------------|---------------------|-----------|---------------|-------------|----------------|----------|-------------|----------------|------------------|----------|----------------------|
| Client ID:                | <b>ZZZZZ</b>        | Batch ID: | <b>R97379</b> | TestNo:     | <b>SW8260B</b> |          |             | Analysis Date: | <b>3/22/2014</b> | SeqNo:   | <b>2630996</b>       |
| Analyte                   | Result              | PQL       | SPK value     | SPK Ref Val | %REC           | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual                 |
| 1,1,1-Trichloroethane     | 0.01955             | 0.0050    | 0.02          | 0           | 97.8           | 70       | 130         | 0.01948        | 0.359            | 20       |                      |
| 1,1,2,2-Tetrachloroethane | 0.02091             | 0.0050    | 0.02          | 0           | 105            | 70       | 130         | 0.02062        | 1.40             | 20       |                      |
| 1,1,2-Trichloroethane     | 0.02061             | 0.0050    | 0.02          | 0           | 103            | 70       | 130         | 0.01998        | 3.10             | 20       |                      |
| 1,1-Dichloroethane        | 0.0217              | 0.0050    | 0.02          | 0           | 108            | 70       | 130         | 0.02181        | 0.506            | 20       |                      |
| 1,1-Dichloroethene        | 0.01784             | 0.0050    | 0.02          | 0           | 89.2           | 70       | 130         | 0.01678        | 6.12             | 20       |                      |
| 1,2,4-Trichlorobenzene    | 0.02083             | 0.0050    | 0.02          | 0.00186     | 94.8           | 70       | 130         | 0.01845        | 12.1             | 20       |                      |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97379**

|                         |                  |                 |                  |             |                          |          |           |             |                       |          |      |
|-------------------------|------------------|-----------------|------------------|-------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID               | VLCSD032214-7    | SampType: LCSD  | TestCode: VOC_W+ | Units: mg/L | Prep Date:               |          |           |             | Run ID: VOA-7_140322A |          |      |
| Client ID: ZZZZZ        | Batch ID: R97379 | TestNo: SW8260B |                  |             | Analysis Date: 3/22/2014 |          |           |             | SeqNo: 2630998        |          |      |
| Analyte                 | Result           | PQL             | SPK value        | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| 1,2,4-Trimethylbenzene  | 0.02038          | 0.0050          | 0.02             | 0.00094     | 97.2                     | 70       | 130       | 0.01942     | 4.82                  | 20       |      |
| 1,2-Dibromoethane       | 0.02045          | 0.0050          | 0.02             | 0           | 102                      | 70       | 130       | 0.01965     | 3.99                  | 20       |      |
| 1,2-Dichlorobenzene     | 0.01941          | 0.0050          | 0.02             | 0           | 97                       | 70       | 130       | 0.01845     | 5.07                  | 20       |      |
| 1,2-Dichloroethane      | 0.02047          | 0.0050          | 0.02             | 0           | 102                      | 70       | 130       | 0.0195      | 4.85                  | 20       |      |
| 1,2-Dichloropropane     | 0.02097          | 0.0050          | 0.02             | 0           | 105                      | 70       | 130       | 0.01994     | 5.04                  | 20       |      |
| 1,3,5-Trimethylbenzene  | 0.01978          | 0.0050          | 0.02             | 0.00058     | 96                       | 70       | 130       | 0.01897     | 4.18                  | 20       |      |
| 1,3-Butadiene           | 0.02655          | 0.010           | 0.02             | 0           | 133                      | 70       | 130       | 0.02549     | 4.07                  | 20       | S*   |
| 1,3-Dichlorobenzene     | 0.01914          | 0.0050          | 0.02             | 0           | 95.7                     | 70       | 130       | 0.01811     | 5.53                  | 20       |      |
| 1,4-Dichlorobenzene     | 0.01987          | 0.0050          | 0.02             | 0.00048     | 97                       | 70       | 130       | 0.01902     | 4.37                  | 20       |      |
| 1,4-Dioxane             | 0.1947           | 0.20            | 0.2              | 0           | 97.3                     | 50       | 150       | 0.2109      | 0                     | 20       | J    |
| 2-Butanone              | 0.03944          | 0.020           | 0.04             | 0           | 98.6                     | 70       | 130       | 0.04006     | 1.56                  | 20       |      |
| 2-Hexanone              | 0.03609          | 0.020           | 0.04             | 0           | 90.2                     | 70       | 130       | 0.03651     | 1.16                  | 20       |      |
| 4-Methyl-2-pentanone    | 0.03931          | 0.020           | 0.04             | 0           | 98.3                     | 70       | 130       | 0.04174     | 6.00                  | 20       |      |
| Acetone                 | 0.04387          | 0.020           | 0.04             | 0           | 110                      | 50       | 150       | 0.04623     | 5.24                  | 20       |      |
| Benzene                 | 0.02092          | 0.0050          | 0.02             | 0.00023     | 103                      | 70       | 130       | 0.01988     | 5.10                  | 20       |      |
| Bromochloromethane      | 0.02415          | 0.0050          | 0.02             | 0           | 121                      | 70       | 130       | 0.02397     | 0.748                 | 20       |      |
| Bromodichloromethane    | 0.02085          | 0.0050          | 0.02             | 0           | 104                      | 70       | 130       | 0.02055     | 1.45                  | 20       |      |
| Bromoform               | 0.01951          | 0.0050          | 0.02             | 0           | 97.6                     | 70       | 130       | 0.0197      | 0.969                 | 20       |      |
| Bromomethane            | 0.02456          | 0.010           | 0.02             | 0           | 123                      | 70       | 130       | 0.02389     | 2.77                  | 20       |      |
| Carbon disulfide        | 0.05255          | 0.010           | 0.04             | 0.00039     | 130                      | 70       | 130       | 0.05066     | 3.66                  | 20       | S    |
| Carbon tetrachloride    | 0.01998          | 0.0050          | 0.02             | 0           | 99.9                     | 70       | 130       | 0.01839     | 8.29                  | 20       |      |
| Chlorobenzene           | 0.0201           | 0.0050          | 0.02             | 0           | 100                      | 70       | 130       | 0.01878     | 6.79                  | 20       |      |
| Chloroethane            | 0.02654          | 0.010           | 0.02             | 0           | 133                      | 70       | 130       | 0.02461     | 7.55                  | 20       | S    |
| Chloroform              | 0.02255          | 0.0050          | 0.02             | 0           | 113                      | 70       | 130       | 0.02155     | 4.54                  | 20       |      |
| Chloromethane           | 0.02498          | 0.010           | 0.02             | 0           | 125                      | 70       | 130       | 0.02373     | 5.13                  | 20       |      |
| cis-1,2-Dichloroethene  | 0.02175          | 0.0050          | 0.02             | 0           | 109                      | 70       | 130       | 0.02028     | 7.00                  | 20       |      |
| cis-1,3-Dichloropropene | 0.02002          | 0.0010          | 0.02             | 0           | 100                      | 70       | 130       | 0.02022     | 0.994                 | 20       |      |
| Dibromochloromethane    | 0.02032          | 0.0050          | 0.02             | 0           | 102                      | 70       | 130       | 0.02034     | 0.0984                | 20       |      |
| Dichlorodifluoromethane | 0.03255          | 0.010           | 0.02             | 0           | 163                      | 70       | 130       | 0.03232     | 0.709                 | 20       | S    |
| Ethyl acetate           | 0.02169          | 0.050           | 0.02             | 0           | 108                      | 70       | 130       | 0.01947     | 0                     | 20       | J    |
| Ethylbenzene            | 0.02031          | 0.0050          | 0.02             | 0           | 102                      | 70       | 130       | 0.01906     | 6.35                  | 20       |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID: R97379**

|                           |                  |                 |                  |             |                          |          |           |             |                       |          |      |
|---------------------------|------------------|-----------------|------------------|-------------|--------------------------|----------|-----------|-------------|-----------------------|----------|------|
| Sample ID                 | VLCSD032214-7    | SampType: LCSD  | TestCode: VOC_W+ | Units: mg/L | Prep Date:               |          |           |             | Run ID: VOA-7_140322A |          |      |
| Client ID: ZZZZZ          | Batch ID: R97379 | TestNo: SW8260B |                  |             | Analysis Date: 3/22/2014 |          |           |             | SeqNo: 2630998        |          |      |
| Analyte                   | Result           | PQL             | SPK value        | SPK Ref Val | %REC                     | LowLimit | HighLimit | RPD Ref Val | %RPD                  | RPDLimit | Qual |
| Hexachlorobutadiene       | 0.02082          | 0.0050          | 0.02             | 0.00498     | 79.2                     | 70       | 130       | 0.02017     | 3.17                  | 20       | *    |
| Hexane                    | 0.02251          | 0.0050          | 0.02             | 0           | 113                      | 70       | 130       | 0.02155     | 4.36                  | 20       | *    |
| Isopropyl Alcohol         | 0.3655           | 0.40            | 0.4              | 0           | 91.4                     | 50       | 150       | 0.391       | 0                     | 20       | J*   |
| m,p-Xylene                | 0.04072          | 0.010           | 0.04             | 0           | 102                      | 70       | 130       | 0.03816     | 6.49                  | 20       |      |
| Methyl tert-butyl ether   | 0.02214          | 0.0050          | 0.02             | 0           | 111                      | 50       | 150       | 0.0221      | 0.181                 | 20       |      |
| Methylene chloride        | 0.02208          | 0.0050          | 0.02             | 0           | 110                      | 70       | 130       | 0.0214      | 3.13                  | 20       |      |
| o-Xylene                  | 0.01975          | 0.0050          | 0.02             | 0           | 98.8                     | 70       | 130       | 0.01827     | 7.79                  | 20       |      |
| Styrene                   | 0.02085          | 0.0050          | 0.02             | 0           | 104                      | 70       | 130       | 0.0199      | 4.66                  | 20       |      |
| Tetrachloroethene         | 0.02051          | 0.0050          | 0.02             | 0           | 103                      | 70       | 130       | 0.01857     | 9.93                  | 20       |      |
| Toluene                   | 0.02098          | 0.0050          | 0.02             | 0           | 105                      | 70       | 130       | 0.02033     | 3.15                  | 20       |      |
| trans-1,2-Dichloroethene  | 0.02113          | 0.0050          | 0.02             | 0           | 106                      | 70       | 130       | 0.02063     | 2.39                  | 20       |      |
| trans-1,3-Dichloropropene | 0.01932          | 0.0010          | 0.02             | 0           | 96.6                     | 70       | 130       | 0.01926     | 0.311                 | 20       |      |
| Trichloroethene           | 0.0199           | 0.0050          | 0.02             | 0.00406     | 79.2                     | 70       | 130       | 0.01889     | 5.21                  | 20       |      |
| Trichlorofluoromethane    | 0.0261           | 0.0050          | 0.02             | 0           | 130                      | 70       | 130       | 0.02397     | 8.51                  | 20       | S    |
| Vinyl acetate             | 0.04779          | 0.020           | 0.04             | 0           | 119                      | 50       | 150       | 0.05291     | 10.2                  | 20       |      |
| Vinyl chloride            | 0.02683          | 0.0020          | 0.02             | 0           | 134                      | 70       | 130       | 0.02479     | 7.90                  | 20       | S    |
| Xylenes, Total            | 0.06046          | 0.015           | 0.06             | 0           | 101                      | 70       | 130       | 0.05642     | 6.91                  | 20       |      |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL  
**Test No:** SW8270C-SIM **Matrix:** W

**QC SUMMARY REPORT  
SURROGATE RECOVERIES**

| Sample ID      | DCBZ12D4 | NO2BZD5 | PHEN2F | PHEND14 |  |  |  |  |
|----------------|----------|---------|--------|---------|--|--|--|--|
| 14030659-001B  | 100      | 85.4    | 102    | 102     |  |  |  |  |
| 14030659-002B  | 81.8     | 70.6    | 101    | 99.4    |  |  |  |  |
| MB-75275-PNA   | 83.8     | 77.0    | 94.6   | 96.4    |  |  |  |  |
| LCS-75275-PNA  | 85.0     | 78.6    | 93.8   | 98.6    |  |  |  |  |
| LCSD-75275-PNA | 91.6     | 82.2    | 103    | 98.2    |  |  |  |  |

| Acronym  | Surrogate                | QC Limits |
|----------|--------------------------|-----------|
| DCBZ12D4 | = 1,2-Dichlorobenzene-d4 | 16-110    |
| NO2BZD5  | = Nitrobenzene-d5        | 35-114    |
| PHEN2F   | = 2-Fluorobiphenyl       | 43-116    |
| PHEND14  | = 4-Terphenyl-d14        | 33-141    |

**\* Surrogate recovery outside acceptance limits**

Prep Start Date: **3/24/2014 12:22:00**

Prep End Date:

Prep Factor Units:

 Prep Batch **75275**

 Prep Code: **3510\_PNA**

 Technician: **PAA**

mL / L

| Sample ID      | Matrix | pH | SampAmt | Sol Added | Sol Recov | Fin Vol | factor | PrepStart | PrepEnd   |
|----------------|--------|----|---------|-----------|-----------|---------|--------|-----------|-----------|
| MB-75275-PNA   |        |    | 1       | 0         | 0         | 1       | 1.000  | 3/24/2014 | 3/24/2014 |
| LCS-75275-PNA  |        |    | 1       | 0         | 0         | 1       | 1.000  | 3/24/2014 | 3/24/2014 |
| LCSD-75275-PNA |        |    | 1       | 0         | 0         | 1       | 1.000  | 3/24/2014 | 3/24/2014 |
| 14030659-001B  | Water  |    | 1       | 0         | 0         | 1       | 1.000  | 3/24/2014 | 3/24/2014 |
| 14030659-002B  | Water  |    | 1       | 0         | 0         | 1       | 1.000  | 3/24/2014 | 3/24/2014 |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75275

| Sample ID  | <b>MB-75275-PNA</b> | SampType: | <b>MBLK</b>  | TestCode:   | <b>PNA_WATER</b>  | Units:   | <b>mg/L</b> | Prep Date:     | <b>3/24/2014</b> | Run ID:  | <b>SVOC-7_140324A</b> |
|------------|---------------------|-----------|--------------|-------------|-------------------|----------|-------------|----------------|------------------|----------|-----------------------|
| Client ID: | <b>ZZZZZ</b>        | Batch ID: | <b>75275</b> | TestNo:     | <b>SW8270C-SI</b> |          |             | Analysis Date: | <b>3/24/2014</b> | SeqNo:   | <b>2631240</b>        |
| Analyte    | Result              | PQL       | SPK value    | SPK Ref Val | %REC              | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual                  |

|                        |    |         |  |  |  |  |  |  |  |  |  |
|------------------------|----|---------|--|--|--|--|--|--|--|--|--|
| Acenaphthene           | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Acenaphthylene         | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Anthracene             | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Benz(a)anthracene      | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Benzo(a)pyrene         | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Benzo(b)fluoranthene   | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Benzo(g,h,i)perylene   | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Benzo(k)fluoranthene   | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Chrysene               | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Dibenz(a,h)anthracene  | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Fluoranthene           | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Fluorene               | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Indeno(1,2,3-cd)pyrene | ND | 0.00010 |  |  |  |  |  |  |  |  |  |
| Naphthalene            | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Phenanthrene           | ND | 0.0010  |  |  |  |  |  |  |  |  |  |
| Pyrene                 | ND | 0.0010  |  |  |  |  |  |  |  |  |  |

| Sample ID  | <b>LCS-75275-PNA</b> | SampType: | <b>LCS</b>   | TestCode:   | <b>PNA_WATER</b>  | Units:   | <b>mg/L</b> | Prep Date:     | <b>3/24/2014</b> | Run ID:  | <b>SVOC-7_140324A</b> |
|------------|----------------------|-----------|--------------|-------------|-------------------|----------|-------------|----------------|------------------|----------|-----------------------|
| Client ID: | <b>ZZZZZ</b>         | Batch ID: | <b>75275</b> | TestNo:     | <b>SW8270C-SI</b> |          |             | Analysis Date: | <b>3/24/2014</b> | SeqNo:   | <b>2631262</b>        |
| Analyte    | Result               | PQL       | SPK value    | SPK Ref Val | %REC              | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual                  |

|                       |         |         |       |   |      |    |     |   |   |  |  |
|-----------------------|---------|---------|-------|---|------|----|-----|---|---|--|--|
| Acenaphthene          | 0.0045  | 0.0010  | 0.005 | 0 | 90   | 50 | 125 | 0 | 0 |  |  |
| Acenaphthylene        | 0.00442 | 0.0010  | 0.005 | 0 | 88.4 | 50 | 125 | 0 | 0 |  |  |
| Anthracene            | 0.00447 | 0.0010  | 0.005 | 0 | 89.4 | 50 | 125 | 0 | 0 |  |  |
| Benz(a)anthracene     | 0.00447 | 0.00010 | 0.005 | 0 | 89.4 | 50 | 125 | 0 | 0 |  |  |
| Benzo(a)pyrene        | 0.00421 | 0.00010 | 0.005 | 0 | 84.2 | 50 | 125 | 0 | 0 |  |  |
| Benzo(b)fluoranthene  | 0.00455 | 0.00010 | 0.005 | 0 | 91   | 50 | 125 | 0 | 0 |  |  |
| Benzo(g,h,i)perylene  | 0.00458 | 0.0010  | 0.005 | 0 | 91.6 | 50 | 125 | 0 | 0 |  |  |
| Benzo(k)fluoranthene  | 0.00456 | 0.00010 | 0.005 | 0 | 91.2 | 50 | 125 | 0 | 0 |  |  |
| Chrysene              | 0.00488 | 0.00010 | 0.005 | 0 | 97.6 | 50 | 125 | 0 | 0 |  |  |
| Dibenz(a,h)anthracene | 0.00426 | 0.00010 | 0.005 | 0 | 85.2 | 50 | 125 | 0 | 0 |  |  |

|                    |  |   |   |
|--------------------|--|---|---|
| <b>Qualifiers:</b> | ND - Not Detected at the Reporting Limit       | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank |
|                    | J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits            | E - Value above quantitation range                  |
|                    | * - Non Accredited Parameter                   | H/HT - Holding Time Exceeded                        |   |

**CLIENT:** Weston Solutions  
**Work Order:** 14030659  
**Project:** 20405.012.005.2306.00, BKG, Kankakee, IL

## ANALYTICAL QC SUMMARY REPORT

**BatchID:** 75275

| Sample ID  | <b>LCS-75275-PNA</b> | SampType: | <b>LCS</b>   | TestCode:   | <b>PNA_WATER</b>  | Units:   | <b>mg/L</b> | Prep Date:     | <b>3/24/2014</b> | Run ID:  | <b>SVOC-7_140324A</b> |
|------------|----------------------|-----------|--------------|-------------|-------------------|----------|-------------|----------------|------------------|----------|-----------------------|
| Client ID: | <b>ZZZZZ</b>         | Batch ID: | <b>75275</b> | TestNo:     | <b>SW8270C-SI</b> |          |             | Analysis Date: | <b>3/24/2014</b> | SeqNo:   | <b>2631262</b>        |
| Analyte    | Result               | PQL       | SPK value    | SPK Ref Val | %REC              | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual                  |

|                        |         |         |       |   |      |    |     |   |   |  |  |
|------------------------|---------|---------|-------|---|------|----|-----|---|---|--|--|
| Fluoranthene           | 0.00487 | 0.0010  | 0.005 | 0 | 97.4 | 50 | 125 | 0 | 0 |  |  |
| Fluorene               | 0.00463 | 0.0010  | 0.005 | 0 | 92.6 | 50 | 125 | 0 | 0 |  |  |
| Indeno(1,2,3-cd)pyrene | 0.00467 | 0.00010 | 0.005 | 0 | 93.4 | 50 | 125 | 0 | 0 |  |  |
| Naphthalene            | 0.00414 | 0.0010  | 0.005 | 0 | 82.8 | 50 | 125 | 0 | 0 |  |  |
| Phenanthrene           | 0.00446 | 0.0010  | 0.005 | 0 | 89.2 | 50 | 125 | 0 | 0 |  |  |
| Pyrene                 | 0.00483 | 0.0010  | 0.005 | 0 | 96.6 | 50 | 125 | 0 | 0 |  |  |

| Sample ID  | <b>LCSD-75275-PNA</b> | SampType: | <b>LCSD</b>  | TestCode:   | <b>PNA_WATER</b>  | Units:   | <b>mg/L</b> | Prep Date:     | <b>3/24/2014</b> | Run ID:  | <b>SVOC-7_140324A</b> |
|------------|-----------------------|-----------|--------------|-------------|-------------------|----------|-------------|----------------|------------------|----------|-----------------------|
| Client ID: | <b>ZZZZZ</b>          | Batch ID: | <b>75275</b> | TestNo:     | <b>SW8270C-SI</b> |          |             | Analysis Date: | <b>3/24/2014</b> | SeqNo:   | <b>2631272</b>        |
| Analyte    | Result                | PQL       | SPK value    | SPK Ref Val | %REC              | LowLimit | HighLimit   | RPD Ref Val    | %RPD             | RPDLimit | Qual                  |

|                        |         |         |       |   |      |    |     |         |       |    |  |
|------------------------|---------|---------|-------|---|------|----|-----|---------|-------|----|--|
| Acenaphthene           | 0.00485 | 0.0010  | 0.005 | 0 | 97   | 50 | 125 | 0.0045  | 7.49  | 25 |  |
| Acenaphthylene         | 0.00482 | 0.0010  | 0.005 | 0 | 96.4 | 50 | 125 | 0.00442 | 8.66  | 25 |  |
| Anthracene             | 0.00457 | 0.0010  | 0.005 | 0 | 91.4 | 50 | 125 | 0.00447 | 2.21  | 25 |  |
| Benz(a)anthracene      | 0.00458 | 0.00010 | 0.005 | 0 | 91.6 | 50 | 125 | 0.00447 | 2.43  | 25 |  |
| Benzo(a)pyrene         | 0.0042  | 0.00010 | 0.005 | 0 | 84   | 50 | 125 | 0.00421 | 0.238 | 25 |  |
| Benzo(b)fluoranthene   | 0.00478 | 0.00010 | 0.005 | 0 | 95.6 | 50 | 125 | 0.00455 | 4.93  | 25 |  |
| Benzo(g,h,i)perylene   | 0.00515 | 0.0010  | 0.005 | 0 | 103  | 50 | 125 | 0.00458 | 11.7  | 25 |  |
| Benzo(k)fluoranthene   | 0.0049  | 0.00010 | 0.005 | 0 | 98   | 50 | 125 | 0.00456 | 7.19  | 25 |  |
| Chrysene               | 0.00502 | 0.00010 | 0.005 | 0 | 100  | 50 | 125 | 0.00488 | 2.83  | 25 |  |
| Dibenz(a,h)anthracene  | 0.00516 | 0.00010 | 0.005 | 0 | 103  | 50 | 125 | 0.00426 | 19.1  | 25 |  |
| Fluoranthene           | 0.00481 | 0.0010  | 0.005 | 0 | 96.2 | 50 | 125 | 0.00487 | 1.24  | 25 |  |
| Fluorene               | 0.0048  | 0.0010  | 0.005 | 0 | 96   | 50 | 125 | 0.00463 | 3.61  | 25 |  |
| Indeno(1,2,3-cd)pyrene | 0.00521 | 0.00010 | 0.005 | 0 | 104  | 50 | 125 | 0.00467 | 10.9  | 25 |  |
| Naphthalene            | 0.00471 | 0.0010  | 0.005 | 0 | 94.2 | 50 | 125 | 0.00414 | 12.9  | 25 |  |
| Phenanthrene           | 0.00459 | 0.0010  | 0.005 | 0 | 91.8 | 50 | 125 | 0.00446 | 2.87  | 25 |  |
| Pyrene                 | 0.00502 | 0.0010  | 0.005 | 0 | 100  | 50 | 125 | 0.00483 | 3.86  | 25 |  |

**Qualifiers:** ND - Not Detected at the Reporting Limit      S - Spike Recovery outside accepted recovery limits      B - Analyte detected in the associated Method Blank  
J - Analyte detected below quantitation limits      R - RPD outside accepted recovery limits      E - Value above quantitation range  
\* - Non Accredited Parameter      H/HT - Holding Time Exceeded

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**ATTACHMENT E**  
**DATA VALIDATION REPORT FOR AIR SAMPLES**

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**BUCKEYE KANKAKEE GASOLINE SPILL  
KANKAKEE, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** March 27, 2014

**Laboratory:** STAT Analysis Corporation (STAT), Chicago, Illinois

**Laboratory Project #:** 14030659

**Data Validation Performed By:** Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)

**Weston Analytical Work Order #/TDD #:** 20405.016.005.2306.77/S05-0005-1403-006

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for three air samples collected for the Buckeye Kankakee Gasoline Spill Site that were analyzed for the following parameters and U.S. Environmental Protection Agency methods:

- Volatile Organic Compounds (VOC) by Method TO-15

A level II data package was requested from STAT. The data validation was conducted in general accordance with the EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

**VOCs BY METHOD TO-15**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

| <b>Samples</b>     | <b>Lab ID</b> | <b>Matrix</b> | <b>Date Collected</b> | <b>Date Analyzed</b> |
|--------------------|---------------|---------------|-----------------------|----------------------|
| BKG-Summa-N-032114 | 14030659-003  | Air           | 3/21/2014             | 3/21/2014            |
| BKG-Summa-W-032114 | 14030659-004  | Air           | 3/21/2014             | 3/21/2014            |
| BKG-Summa-E-032114 | 14030659-005  | Air           | 3/21/2014             | 3/21/2014            |

**2. Holding Times**

The samples were analyzed within the required holding time limit of 30 days from sample collection.

**3. Blanks**

A method blank was analyzed with the VOC analyses and was free of target compound contamination above the reporting limits. Bromomethane was detected below the reporting limits in the method blanks. However, bromomethane was not detected in the samples and no qualifications were required.

**4. Laboratory Control Sample (LCS) Results**

The LCS and LCS duplicate (LCSD) recoveries and relative percent differences (RPD) were within laboratory QC limits.

**5. Overall Assessment**

The VOC data are acceptable for use based on the information received.

Data Validation Report  
Buckeye Kankakee Gasoline Spill Site  
STAT Analysis Corporation  
Laboratory Project #: 14030659

**ATTACHMENT**

**STAT ANALYSIS CORPORATION  
RESULTS SUMMARY**

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |      |                             |                    |
|---|--------------|------|---|------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |      | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,1,1-Trichloroethane                             | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2,2-Tetrachloroethane                         | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2-Trichloroethane                             | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethane                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethene                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trichlorobenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trimethylbenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dibromoethane                                 | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloroethane                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloropropane                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3,5-Trimethylbenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Butadiene                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 1.8  |   | ppbv | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 1.8  |   | ppbv | 1                           | 3/21/2014          |
| Acetone   | ND           | 3.5  | * | ppbv | 1                           | 3/21/2014          |
| Benzene   | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Bromoform   | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloroform  | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 0.89 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 0.46         | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |  |  |  |                      |             |
|---|--------------|--|--|--|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | Prep Date: 3/21/2014 | Analyst: VP |
|---|--------------|--|--|--|----------------------|-------------|

|                           |      |      |  |      |   |           |
|---------------------------|------|------|--|------|---|-----------|
| Ethylbenzene              | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Freon-113                 | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Freon-114                 | ND   | 1.8  |  | ppbv | 1 | 3/21/2014 |
| Heptane                   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Hexachlorobutadiene       | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Hexane                    | ND   | 0.89 |  | ppbv | 1 | 3/21/2014 |
| Isopropyl Alcohol         | ND   | 1.8  |  | ppbv | 1 | 3/21/2014 |
| m,p-Xylene                | ND   | 0.71 |  | ppbv | 1 | 3/21/2014 |
| Methyl tert-butyl ether   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Methylene chloride        | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| o-Xylene                  | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Propene                   | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| Styrene                   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Tetrachloroethene         | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Tetrahydrofuran           | ND   | 0.89 |  | ppbv | 1 | 3/21/2014 |
| Toluene                   | 0.39 | 0.35 |  | ppbv | 1 | 3/21/2014 |
| trans-1,2-Dichloroethene  | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| trans-1,3-Dichloropropene | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Trichloroethene           | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Trichlorofluoromethane    | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Vinyl acetate             | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| Vinyl chloride            | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Xylenes, Total            | ND   | 1.1  |  | ppbv | 1 | 3/21/2014 |

|   |              |  |  |  |                      |             |
|---|--------------|--|--|--|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | Prep Date: 3/21/2014 | Analyst: VP |
|---|--------------|--|--|--|----------------------|-------------|

|                           |    |      |  |       |   |           |
|---------------------------|----|------|--|-------|---|-----------|
| 1,1,1-Trichloroethane     | ND | 2    |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2,2-Tetrachloroethane | ND | 2.5  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2-Trichloroethane     | ND | 2    |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethane        | ND | 1.4  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethene        | ND | 1.4  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trichlorobenzene    | ND | 2.7  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trimethylbenzene    | ND | 1.8  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dibromoethane         | ND | 2.7  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichlorobenzene       | ND | 2.1  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloroethane        | ND | 1.4  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloropropane       | ND | 1.6  |  | µg/m³ | 1 | 3/21/2014 |
| 1,3,5-Trimethylbenzene    | ND | 1.8  |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Butadiene             | ND | 0.71 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Dichlorobenzene       | ND | 2.1  |  | µg/m³ | 1 | 3/21/2014 |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

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\* - Non-accredited parameter

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S - Spike Recovery outside accepted recovery limits

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |       |                             |                    |
|---|--------------|------|---|-------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |       | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,4-Dichlorobenzene                               | ND           | 2.1  |   | µg/m³ | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 2.7  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 7.3  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 7.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Acetone   | ND           | 8.5  | * | µg/m³ | 1                           | 3/21/2014          |
| Benzene   | ND           | 1.1  |   | µg/m³ | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 4.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 2.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromoform   | ND           | 9.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 3.4  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 1.1  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 2.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.89 |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroform  | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 1.4  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 3    |   | µg/m³ | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 2.3          | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethylbenzene                                      | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-113   | ND           | 2.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-114   | ND           | 12   |   | µg/m³ | 1                           | 3/21/2014          |
| Heptane   | ND           | 1.4  |   | µg/m³ | 1                           | 3/21/2014          |
| Hexachlorobutadiene                               | ND           | 3.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Hexane  | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Isopropyl Alcohol                                 | ND           | 4.4  |   | µg/m³ | 1                           | 3/21/2014          |
| m,p-Xylene  | ND           | 3    |   | µg/m³ | 1                           | 3/21/2014          |
| Methyl tert-butyl ether                           | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Methylene chloride                                | ND           | 12   |   | µg/m³ | 1                           | 3/21/2014          |
| o-Xylene  | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Propene   | ND           | 6    |   | µg/m³ | 1                           | 3/21/2014          |
| Styrene   | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Tetrachloroethene                                 | ND           | 2.5  |   | µg/m³ | 1                           | 3/21/2014          |

**Qualifiers:**

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\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

H - Holding time exceeded

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**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-N-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-003A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |  |       |                      |             |
|---|--------------|------|--|-------|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |  |       | Prep Date: 3/21/2014 | Analyst: VP |
| Tetrahydrofuran                                   | ND           | 2.7  |  | µg/m³ | 1                    | 3/21/2014   |
| Toluene   | 1.5          | 1.4  |  | µg/m³ | 1                    | 3/21/2014   |
| trans-1,2-Dichloroethene                          | ND           | 1.4  |  | µg/m³ | 1                    | 3/21/2014   |
| trans-1,3-Dichloropropene                         | ND           | 1.6  |  | µg/m³ | 1                    | 3/21/2014   |
| Trichloroethene                                   | ND           | 2    |  | µg/m³ | 1                    | 3/21/2014   |
| Trichlorofluoromethane                            | ND           | 2    |  | µg/m³ | 1                    | 3/21/2014   |
| Vinyl acetate                                     | ND           | 12   |  | µg/m³ | 1                    | 3/21/2014   |
| Vinyl chloride                                    | ND           | 0.89 |  | µg/m³ | 1                    | 3/21/2014   |
| Xylenes, Total                                    | ND           | 4.6  |  | µg/m³ | 1                    | 3/21/2014   |

**Qualifiers:**

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J - Analyte detected below quantitation limits  
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Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |      |                             |                    |
|---|--------------|------|---|------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |      | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,1,1-Trichloroethane                             | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2,2-Tetrachloroethane                         | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2-Trichloroethane                             | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethane                                | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethene                                | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trichlorobenzene                            | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trimethylbenzene                            | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dibromoethane                                 | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichlorobenzene                               | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloroethane                                | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloropropane                               | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,3,5-Trimethylbenzene                            | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Butadiene                                     | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Dichlorobenzene                               | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dichlorobenzene                               | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 1.9  |   | ppbv | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 1.9  |   | ppbv | 1                           | 3/21/2014          |
| Acetone   | ND           | 3.8  | * | ppbv | 1                           | 3/21/2014          |
| Benzene   | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Bromoform   | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Chloroform  | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 0.96 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 0.44         | 0.38 |   | ppbv | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 0.38 |   | ppbv | 1                           | 3/21/2014          |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded



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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |  |  |  |                      |             |
|---|--------------|--|--|--|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | Prep Date: 3/21/2014 | Analyst: VP |
|---|--------------|--|--|--|----------------------|-------------|

|                           |      |      |  |      |   |           |
|---------------------------|------|------|--|------|---|-----------|
| Ethylbenzene              | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Freon-113                 | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Freon-114                 | ND   | 1.9  |  | ppbv | 1 | 3/21/2014 |
| Heptane                   | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Hexachlorobutadiene       | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Hexane                    | ND   | 0.96 |  | ppbv | 1 | 3/21/2014 |
| Isopropyl Alcohol         | ND   | 1.9  |  | ppbv | 1 | 3/21/2014 |
| m,p-Xylene                | ND   | 0.76 |  | ppbv | 1 | 3/21/2014 |
| Methyl tert-butyl ether   | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Methylene chloride        | ND   | 3.8  |  | ppbv | 1 | 3/21/2014 |
| o-Xylene                  | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Propene                   | ND   | 3.8  |  | ppbv | 1 | 3/21/2014 |
| Styrene                   | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Tetrachloroethene         | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Tetrahydrofuran           | ND   | 0.96 |  | ppbv | 1 | 3/21/2014 |
| Toluene                   | 0.38 | 0.38 |  | ppbv | 1 | 3/21/2014 |
| trans-1,2-Dichloroethene  | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| trans-1,3-Dichloropropene | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Trichloroethene           | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Trichlorofluoromethane    | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Vinyl acetate             | ND   | 3.8  |  | ppbv | 1 | 3/21/2014 |
| Vinyl chloride            | ND   | 0.38 |  | ppbv | 1 | 3/21/2014 |
| Xylenes, Total            | ND   | 1.1  |  | ppbv | 1 | 3/21/2014 |

|   |              |  |  |  |                      |             |
|---|--------------|--|--|--|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | Prep Date: 3/21/2014 | Analyst: VP |
|---|--------------|--|--|--|----------------------|-------------|

|                           |    |      |  |       |   |           |
|---------------------------|----|------|--|-------|---|-----------|
| 1,1,1-Trichloroethane     | ND | 2.1  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2,2-Tetrachloroethane | ND | 2.7  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2-Trichloroethane     | ND | 2.1  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethane        | ND | 1.5  |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethene        | ND | 1.5  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trichlorobenzene    | ND | 2.9  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trimethylbenzene    | ND | 1.9  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dibromoethane         | ND | 2.9  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichlorobenzene       | ND | 2.3  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloroethane        | ND | 1.5  |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloropropane       | ND | 1.7  |  | µg/m³ | 1 | 3/21/2014 |
| 1,3,5-Trimethylbenzene    | ND | 1.9  |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Butadiene             | ND | 0.76 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Dichlorobenzene       | ND | 2.3  |  | µg/m³ | 1 | 3/21/2014 |

**Qualifiers:**

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HT - Sample received past holding time

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E - Value above quantitation range

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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |       |                             |                    |
|---|--------------|------|---|-------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |       | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,4-Dichlorobenzene                               | ND           | 2.3  |   | µg/m³ | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 3.4  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 2.9  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 7.8  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 1.9  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 7.8  |   | µg/m³ | 1                           | 3/21/2014          |
| Acetone   | ND           | 9.2  | * | µg/m³ | 1                           | 3/21/2014          |
| Benzene   | ND           | 1.1  |   | µg/m³ | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 5    |   | µg/m³ | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 2.5  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromoform   | ND           | 9.9  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 3.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 2.5  |   | µg/m³ | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.96 |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroform  | ND           | 1.9  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 1.9  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 1.5  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 1.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 2.2          | 1.9  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 1.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethylbenzene                                      | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-113   | ND           | 2.9  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-114   | ND           | 13   |   | µg/m³ | 1                           | 3/21/2014          |
| Heptane   | ND           | 1.5  |   | µg/m³ | 1                           | 3/21/2014          |
| Hexachlorobutadiene                               | ND           | 4    |   | µg/m³ | 1                           | 3/21/2014          |
| Hexane  | ND           | 3.4  |   | µg/m³ | 1                           | 3/21/2014          |
| Isopropyl Alcohol                                 | ND           | 4.8  |   | µg/m³ | 1                           | 3/21/2014          |
| m,p-Xylene  | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Methyl tert-butyl ether                           | ND           | 1.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Methylene chloride                                | ND           | 13   |   | µg/m³ | 1                           | 3/21/2014          |
| o-Xylene  | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Propene   | ND           | 6.5  |   | µg/m³ | 1                           | 3/21/2014          |
| Styrene   | ND           | 1.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Tetrachloroethene                                 | ND           | 2.7  |   | µg/m³ | 1                           | 3/21/2014          |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-W-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-004A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |  |       |                             |                    |
|---|--------------|------|--|-------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |  |       | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| Tetrahydrofuran                                   | ND           | 2.9  |  | µg/m³ | 1                           | 3/21/2014          |
| Toluene   | 1.4          | 1.3  |  | µg/m³ | 1                           | 3/21/2014          |
| trans-1,2-Dichloroethene                          | ND           | 1.5  |  | µg/m³ | 1                           | 3/21/2014          |
| trans-1,3-Dichloropropene                         | ND           | 1.7  |  | µg/m³ | 1                           | 3/21/2014          |
| Trichloroethene                                   | ND           | 2.1  |  | µg/m³ | 1                           | 3/21/2014          |
| Trichlorofluoromethane                            | ND           | 2.1  |  | µg/m³ | 1                           | 3/21/2014          |
| Vinyl acetate                                     | ND           | 13   |  | µg/m³ | 1                           | 3/21/2014          |
| Vinyl chloride                                    | ND           | 0.96 |  | µg/m³ | 1                           | 3/21/2014          |
| Xylenes, Total                                    | ND           | 5    |  | µg/m³ | 1                           | 3/21/2014          |

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |      |                             |                    |
|---|--------------|------|---|------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |      | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,1,1-Trichloroethane                             | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2,2-Tetrachloroethane                         | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1,2-Trichloroethane                             | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethane                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,1-Dichloroethene                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trichlorobenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2,4-Trimethylbenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dibromoethane                                 | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloroethane                                | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,2-Dichloropropane                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3,5-Trimethylbenzene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Butadiene                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,3-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dichlorobenzene                               | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 1.8  |   | ppbv | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 1.8  |   | ppbv | 1                           | 3/21/2014          |
| Acetone   | ND           | 3.5  | * | ppbv | 1                           | 3/21/2014          |
| Benzene   | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Bromoform   | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloroform  | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 0.88 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 0.44         | 0.35 |   | ppbv | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 0.35 |   | ppbv | 1                           | 3/21/2014          |

**Qualifiers:**

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J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

HT - Sample received past holding time

\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |  |  |  |                      |             |
|---|--------------|--|--|--|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | Prep Date: 3/21/2014 | Analyst: VP |
|---|--------------|--|--|--|----------------------|-------------|

|                           |      |      |  |      |   |           |
|---------------------------|------|------|--|------|---|-----------|
| Ethylbenzene              | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Freon-113                 | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Freon-114                 | ND   | 1.8  |  | ppbv | 1 | 3/21/2014 |
| Heptane                   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Hexachlorobutadiene       | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Hexane                    | ND   | 0.88 |  | ppbv | 1 | 3/21/2014 |
| Isopropyl Alcohol         | ND   | 1.8  |  | ppbv | 1 | 3/21/2014 |
| m,p-Xylene                | ND   | 0.7  |  | ppbv | 1 | 3/21/2014 |
| Methyl tert-butyl ether   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Methylene chloride        | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| o-Xylene                  | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Propene                   | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| Styrene                   | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Tetrachloroethene         | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Tetrahydrofuran           | ND   | 0.88 |  | ppbv | 1 | 3/21/2014 |
| Toluene                   | 0.42 | 0.35 |  | ppbv | 1 | 3/21/2014 |
| trans-1,2-Dichloroethene  | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| trans-1,3-Dichloropropene | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Trichloroethene           | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Trichlorofluoromethane    | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Vinyl acetate             | ND   | 3.5  |  | ppbv | 1 | 3/21/2014 |
| Vinyl chloride            | ND   | 0.35 |  | ppbv | 1 | 3/21/2014 |
| Xylenes, Total            | ND   | 1.1  |  | ppbv | 1 | 3/21/2014 |

|   |              |  |  |  |                      |             |
|---|--------------|--|--|--|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |  |  |  | Prep Date: 3/21/2014 | Analyst: VP |
|---|--------------|--|--|--|----------------------|-------------|

|                           |    |     |  |       |   |           |
|---------------------------|----|-----|--|-------|---|-----------|
| 1,1,1-Trichloroethane     | ND | 1.9 |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2,2-Tetrachloroethane | ND | 2.5 |  | µg/m³ | 1 | 3/21/2014 |
| 1,1,2-Trichloroethane     | ND | 1.9 |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethane        | ND | 1.4 |  | µg/m³ | 1 | 3/21/2014 |
| 1,1-Dichloroethene        | ND | 1.4 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trichlorobenzene    | ND | 2.6 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2,4-Trimethylbenzene    | ND | 1.8 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dibromoethane         | ND | 2.6 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichlorobenzene       | ND | 2.1 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloroethane        | ND | 1.4 |  | µg/m³ | 1 | 3/21/2014 |
| 1,2-Dichloropropane       | ND | 1.6 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3,5-Trimethylbenzene    | ND | 1.8 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Butadiene             | ND | 0.7 |  | µg/m³ | 1 | 3/21/2014 |
| 1,3-Dichlorobenzene       | ND | 2.1 |  | µg/m³ | 1 | 3/21/2014 |

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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\* - Non-accredited parameter

RL - Reporting / Quantitation Limit for the analysis

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

H - Holding time exceeded

**STAT Analysis Corporation**

2242 West Harrison St., Suite 200, Chicago, IL 60612-3766

Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com

Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-0

Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |   |       |                             |                    |
|---|--------------|------|---|-------|-----------------------------|--------------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |   |       | <b>Prep Date: 3/21/2014</b> | <b>Analyst: VP</b> |
| 1,4-Dichlorobenzene                               | ND           | 2.1  |   | µg/m³ | 1                           | 3/21/2014          |
| 1,4-Dioxane                                       | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Butanone  | ND           | 2.6  |   | µg/m³ | 1                           | 3/21/2014          |
| 2-Hexanone  | ND           | 7.2  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Ethyltoluene                                    | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| 4-Methyl-2-pentanone                              | ND           | 7.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Acetone   | ND           | 8.5  | * | µg/m³ | 1                           | 3/21/2014          |
| Benzene   | ND           | 1.1  |   | µg/m³ | 1                           | 3/21/2014          |
| Benzyl chloride                                   | ND           | 4.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromodichloromethane                              | ND           | 2.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromoform   | ND           | 9.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Bromomethane                                      | ND           | 3.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon disulfide                                  | ND           | 1.1  |   | µg/m³ | 1                           | 3/21/2014          |
| Carbon tetrachloride                              | ND           | 2.3  |   | µg/m³ | 1                           | 3/21/2014          |
| Chlorobenzene                                     | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroethane                                      | ND           | 0.88 |   | µg/m³ | 1                           | 3/21/2014          |
| Chloroform  | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| Chloromethane                                     | ND           | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,2-Dichloroethene                            | ND           | 1.4  |   | µg/m³ | 1                           | 3/21/2014          |
| cis-1,3-Dichloropropene                           | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Cyclohexane                                       | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Dibromochloromethane                              | ND           | 3    |   | µg/m³ | 1                           | 3/21/2014          |
| Dichlorodifluoromethane                           | 2.2          | 1.8  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethyl acetate                                     | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Ethylbenzene                                      | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-113   | ND           | 2.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Freon-114   | ND           | 12   |   | µg/m³ | 1                           | 3/21/2014          |
| Heptane   | ND           | 1.4  |   | µg/m³ | 1                           | 3/21/2014          |
| Hexachlorobutadiene                               | ND           | 3.7  |   | µg/m³ | 1                           | 3/21/2014          |
| Hexane  | ND           | 3.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Isopropyl Alcohol                                 | ND           | 4.4  |   | µg/m³ | 1                           | 3/21/2014          |
| m,p-Xylene  | ND           | 3    |   | µg/m³ | 1                           | 3/21/2014          |
| Methyl tert-butyl ether                           | ND           | 1.2  |   | µg/m³ | 1                           | 3/21/2014          |
| Methylene chloride                                | ND           | 12   |   | µg/m³ | 1                           | 3/21/2014          |
| o-Xylene  | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Propene   | ND           | 6    |   | µg/m³ | 1                           | 3/21/2014          |
| Styrene   | ND           | 1.6  |   | µg/m³ | 1                           | 3/21/2014          |
| Tetrachloroethene                                 | ND           | 2.5  |   | µg/m³ | 1                           | 3/21/2014          |

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Report Date: March 24, 2014

Print Date: March 24, 2014

**ANALYTICAL RESULTS**

Client: Weston Solutions

Client Sample ID: BKG-Summa-E-032114

Lab Order: 14030659

Tag Number:

Project: 20405.012.005.2306.00, BKG, Kankakee, IL

Collection Date: 3/21/2014

Lab ID: 14030659-005A

Matrix: Air

| Analyses | Result | RL | Qualifier | Units | DF | Date Analyzed |
|----------|--------|----|-----------|-------|----|---------------|
|----------|--------|----|-----------|-------|----|---------------|

|   |              |      |  |       |                      |             |
|---|--------------|------|--|-------|----------------------|-------------|
| <b>Volatile Organic Compounds in Air by GC/MS</b> | <b>TO-15</b> |      |  |       | Prep Date: 3/21/2014 | Analyst: VP |
| Tetrahydrofuran                                   | ND           | 2.6  |  | µg/m³ | 1                    | 3/21/2014   |
| Toluene   | 1.6          | 1.4  |  | µg/m³ | 1                    | 3/21/2014   |
| trans-1,2-Dichloroethene                          | ND           | 1.4  |  | µg/m³ | 1                    | 3/21/2014   |
| trans-1,3-Dichloropropene                         | ND           | 1.6  |  | µg/m³ | 1                    | 3/21/2014   |
| Trichloroethene                                   | ND           | 1.9  |  | µg/m³ | 1                    | 3/21/2014   |
| Trichlorofluoromethane                            | ND           | 1.9  |  | µg/m³ | 1                    | 3/21/2014   |
| Vinyl acetate                                     | ND           | 12   |  | µg/m³ | 1                    | 3/21/2014   |
| Vinyl chloride                                    | ND           | 0.88 |  | µg/m³ | 1                    | 3/21/2014   |
| Xylenes, Total                                    | ND           | 4.6  |  | µg/m³ | 1                    | 3/21/2014   |

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